SEARCH REQUEST FORM

4ccess DB= 102286

Scientif	fic and Technical I	isormation Center	•
Mail Box and Bidg Room Location 2815 If more than one search is submitted	Results I, please prioritize	searches in order of need.	DISK E-MAIL
Include the elected species of structures, keywo	irds, synonyms, acronyn nav have a special mean	is, and registry numbers, and combine time. Give examples or relevant citation	ns, authors, etc. if
known Please attach a copy of the cover sheet. Title of Invention Anilinopyrimia Inventors (please provide full names):	Yoshitaka e	tal.	70.137
Earliest Priority Filing Date *For Sequence Searches Only* Please include all appropriate serial number Please reach dans			imbers) along with the
flase second	e ¹³		
			\$ %
	1.	Jan Delaval Reference Librariar Biotechnology & Chemical CM1 1E07 – 703-308-4 jan.delaval@uspto.gd	498
STAFF USE ONLY Service Proces 749	Type of Search NA Sequence (#)		
Searcher Location	Smucture (#)	P	
December 5 8718	Bibliographic		
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=> fil reg FILE 'REGISTRY' ENTERED AT 12:08:57 ON 27 AUG 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

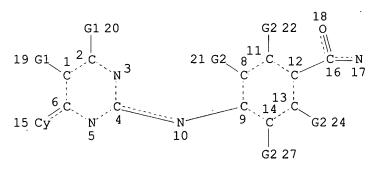
STRUCTURE FILE UPDATES: 25 AUG 2003 HIGHEST RN 573649-48-6 DICTIONARY FILE UPDATES: 25 AUG 2003 HIGHEST RN 573649-48-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf



Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
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O——Ak @25 26

VAR G1=H/AK
VAR G2=H/X/OH/AK/25
NODE ATTRIBUTES:
NSPEC IS RC AT 17
CONNECT IS M1 RC AT 15
CONNECT IS M1 RC AT 17
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE

L3 519 SEA FILE=REGISTRY CSS FUL L1

100.0% PROCESSED 10385 ITERATIONS SEARCH TIME: 00.00.01

519 ANSWERS

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(FILE 'HOME' ENTERED AT 11:58:28 ON 27 AUG 2003)
SET COST OFF
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FILE 'REGISTRY' ENTERED AT 11:58:42 ON 27 AUG 2003
L1 STR
L2 24 S L1 CSS
L3 519 S L1 CSS FUL
SAV L3 JKIM046/A

FILE 'HCAPLUS' ENTERED AT 12:05:17 ON 27 AUG 2003
L4 13 S L3
L5 2 S L4 AND (BHAGWAT ? OR YOSHITAKA ?)/AU
L6 2 S L4 AND SIGNAL?/PA,CS
L7 11 S L4 NOT L5,L6

L8 7 S L4 AND (PY<=2000 OR PRY<=2000 OR AY<=2000)
L9 7 S L5, L6, L8
L10 5 S L9 NOT L5, L6
SEL HIT RN

FILE 'REGISTRY' ENTERED AT 12:07:33 ON 27 AUG 2003 L11 9 S E1-E9

FILE 'REGISTRY! ENTERED AT 12:08:57 ON 27 AUG 2003

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L11 ANSWER 1 OF 9 REGISTRY COPYRIGHT 2003 ACS on STN

RN **403792-67-6** REGISTRY

CN Benzamide, 4-[[4-(1,2-dimethyl-1H-imidazol-5-yl)-2-pyrimidinyl]amino]-N-methyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-methylcarbamoyl)anilino)pyrimidine

FS 3D CONCORD

MF C17 H18 N6 O

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

$$\begin{array}{c|c} Me & & & \\ Me & & & \\ N & & NH & \\ N & & NH & \\ \end{array}$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1937 TO DATE) 1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 136:247599

L11 ANSWER 2 OF 9 REGISTRY COPYRIGHT 2003 ACS on STN

RN 328062-01-7 REGISTRY

CN Benzamide, 4-[(4-imidazo[1,2-a]pyridin-3-yl-2-pyrimidinyl)amino]-N-[3-(2-oxo-1-pyrrolidinyl)propyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C25 H25 N7 O2

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1937 TO DATE)

2 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 137:201324

REFERENCE 2: 134:193444

L11 ANSWER 3 OF 9 REGISTRY COPYRIGHT 2003 ACS on STN

RN 328062-00-6 REGISTRY

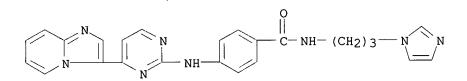
CN Benzamide, 4-[(4-imidazo[1,2-a]pyridin-3-yl-2-pyrimidinyl)amino]-N-[3-(1H-imidazol-1-yl)propyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C24 H22 N8 O

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1937 TO DATE)

2 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 137:201324

REFERENCE 2: 134:193444

L11 ANSWER 4 OF 9 REGISTRY COPYRIGHT 2003 ACS on STN

RN 328061-73-0 REGISTRY

CN Benzamide, 4-[(4-imidazo[1,2-a]pyridin-3-yl-2-pyrimidinyl)amino]-N-methyl-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C19 H16 N6 O

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1937 TO DATE)
2 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 137:201324

REFERENCE 2: 134:193444

L11 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2003 ACS on STN

RN **328061-72-9** REGISTRY

CN Benzamide, 4-[(4-imidazo[1,2-a]pyridin-3-yl-2-pyrimidinyl)amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C20 H18 N6 O

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1937 TO DATE)

2 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 137:201324

REFERENCE 2: 134:193444

L11 ANSWER 6 OF 9 REGISTRY COPYRIGHT 2003 ACS on STN

RN **326818-24-0** REGISTRY

CN Benzamide, 3-methyl-4-[[4-(5-methyl-3-phenyl-4-isoxazolyl)-2-pyrimidinyl]amino]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C22 H19 N5 O2

SR CA

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1937 TO DATE)

1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 134:178569

L11 ANSWER 7 OF 9 REGISTRY COPYRIGHT 2003 ACS on STN

RN 207283-10-1 REGISTRY

CN Benzamide, 4-[[4-[6-(1-piperazinyl)-3-pyridinyl]-2-pyrimidinyl]amino]-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C20 H21 N7 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

$$\begin{array}{c|c} O \\ H_2N-C \\ \hline \\ NH \\ \hline \\ N \\ \hline \\ N \\ \hline \\ N \\ \hline \\ N \\ NH \\ \hline \\ NH \\ \\ NH$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1937 TO DATE)

1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 129:4655

L11 ANSWER 8 OF 9 REGISTRY COPYRIGHT 2003 ACS on STN

RN **112676-86-5** REGISTRY

CN Benzamide, N-methyl-4-[[4-(3-pyridinyl)-2-pyrimidinyl]amino]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C17 H15 N5 O

SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1937 TO DATE)
1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 108:112478

L11 ANSWER 9 OF 9 REGISTRY COPYRIGHT 2003 ACS on STN

RN **112676-85-4** REGISTRY

CN Benzamide, N-[2-(diethylamino)ethyl]-4-[[4-(3-pyridinyl)-2-pyrimidinyl]amino]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C22 H26 N6 O

SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1937 TO DATE)

1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 108:112478

=> fil hcaplus FILE 'HCAPLUS' ENTERED AT 12:09:15 ON 27 AUG 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 27 Aug 2003 VOL 139 ISS 9 FILE LAST UPDATED: 25 Aug 2003 (20030825/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L10 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2003 ACS on STN
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AN 2002:185108 HCAPLUS

DN 136:247599

TI Preparation of imidazolo-5-yl-2-anilino-pyrimidines as agents for the inhibition of the cell proliferation

IN Breault, Gloria Anne; Newcombe, Nicholas John; Thomas, Andrew Peter

PA Astrazeneca AB, Swed.; Astrazeneca UK Limited

SO PCT Int. Appl., 108 pp. CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D403-04 ICS A61P035-02

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom)) Section cross-reference(s): 1, 63

FAN.CNT 1

11111	PATENT NO.			KI	ND DATE				APPLICATION NO.					DATE				
ΡI	WO	0 2002020512		A	A1 20020314			WO 2001-GB3864					20010830 <					
		W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	ΝZ,	PH,	PL,
			PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	ŪG,
			US,	UZ,	VN,	YU,	ZA,	ZW,	AM,	AZ,	BY,	KG,	ΚZ,	MD,	RU,	ΤJ,	TM	
		RW:	GH,	GM,	ΚE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,
			DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
			ΒJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW;	ML,	MR,	ΝE,	SN,	TD,	TG	
	ΑU	AU 2001084192 BR 2001013496		A.	A5 20020322			AU 2001-84192					20010830 <					
	BR			Α		20030701			BR 2001-13496				20010830 <					
	NO	2003	0010	06	Α		2003	0304		N	20	03-1	006		20030	0304	<	
PRAI	GB	2000	-217	26	Α		2000	0905	<	.								
	WO	2001	-GB3	864	W		2001	0830										
OS MARPAT 136:247599																		
GI														(

$$(R^3)_n \xrightarrow{N} \xrightarrow{N} \xrightarrow{H} (R^1)_p$$

$$R^4 \xrightarrow{N} R^6$$

$$R^5 \qquad I$$

II

```
Title compds. I [R1 = halo, nitro, cyano, hydroxy, amino, carboxy,
AB
       carbamoyl, mercapto, alk(en/yn)yl, alkoxy; p = 0-4; R2 = sulfamoyl, Ra-Rb;
       q = 0-2; p + q = 0-5; R3 = halo, nitro, cyano, hydroxy, trifluoromethyl,
       trifluoromethoxy, amino, carboxy, carbamoyl, mercapto, sulfamoyl,
       alk(en/yn)yl, alkoxy, alkanoyl, etc.; n = 0-2, R4 = H, alk(en/yn)yl,
       cycloalkyl, Ph, etc.; R5-6 = H, halo, nitro, cyano, hydroxy,
       trifluoromethoxy, amino, carboxy, carbamoyl, mercapto, sulfamoyl,
       alk(en/yn)yl, alkoxy, etc.; Ra = alk(en/yn)yl, cycloalkyl, Ph,
       heterocyclyl, phenyl-alkyl, etc.; Rb = C(O), amido, carboxamido, etc.]
       were prepd. For instance, phenylguanidine hydrogen carbonate was
       condensed with 5-(3-dimethylaminoprop-2-en-1-oyl)-1-methylimidazole
        (i-PrOH, NaOMe, reflux, 3 h) to give II in 64% yield. The CDK2 inhibitory
       activity of II was measured as IC50 = 0.146 .mu.M.
       imidazoloaniilinopyrimidine imidazole aniline pyrimidine cell
ST
       proliferation inhibitors prepn; cyclin dependent kinase inhibitor
       imidazole pyrimidine prepn
       Antitumor agents
ΙT
       Cytotoxic agents
       Human
             (imidazolo-5-yl-2-anilino-pyrimidines as agents for inhibition of cell
            proliferation)
TT
       150428-23-2
       RL: BCP (Biochemical process); BSU (Biological study, unclassified); BIOL
        (Biological study); PROC (Process)
             (CDK2 inhibitors; imidazolo-5-yl-2-anilino-pyrimidines as agents for
            inhibition of cell proliferation)
        403791-03-7P, 2-Anilino-4-(2-methylimidazol-5-yl)pyrimidine
IT
        403791-04-8P, 4-(2-Methylimidazol-5-yl)-2-(4-sulfamoylanilino)pyrimidine
        403791-05-9P, 2-Anilino-4-(1,2-dimethylimidazol-5-yl)pyrimidine
        403791-13-9P, 4-(1-(2-Aminoethyl)imidazol-5-yl)-2-(3-
                                                403791-36-6P, 4-(1,2-Dimethylimidazol-5-yl)-2-
        chloroanilino)pyrimidine
        (4-(N-t-butoxycarbonylsulfamoyl)anilino)pyrimidine
        RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
       preparation); THU (Therapeutic use); BIOL (Biological study); PREP
        (Preparation); RACT (Reactant or reagent); USES (Uses)
             (drug; imidazolo-5-yl-2-anilino-pyrimidines as agents for inhibition of
            cell proliferation)
        403791-01-5P, 2-(3-Chloroanilino)-4-(2-methylimidazol-5-yl)pyrimidine
ΙT
        403791-02-6P, 2-(3-Chloroanilino)-4-(1,2-dimethylimidazol-5-yl)pyrimidine
        403791-06-0P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-
                                                      403791-07-1P, 4-(1-Benzyl-2-methylimidazol-5-
        sulfamoylanilino)pyrimidine
                                                                403791-08-2P, 2-(3-Chloroanilino)-4-(1-
       yl)-2-(3-chloroanilino)pyrimidine
        (2-methoxyethyl)imidazol-5-yl)pyrimidine hydrochloride
                                                                                                 403791-09-3P,
        2-(3-Chloroanilino)-4-(imidazol-5-yl)pyrimidine
                                                                                     403791-10-6P,
        2-(3-Chloroanilino)-4-(1-(2-phthalimidoethyl)imidazol-5-yl)pyrimidine
        403791-11-7P, 2-(3-Chloroanilino)-4-(1-ethylimidazol-5-yl)pyrimidine
        403791-12-8P, 2-(3-Chloroanilino)-4-(1-methylimidazol-5-yl)pyrimidine
        403791-14-0P, 2-Anilino-4-(1-methylimidazol-5-yl)pyrimidine
        403791-15-1P, 4-(1-Methylimidazol-5-yl)-2-(4-sulfamoylanilino)pyrimidine 403791-16-2P, 2-(4-(N-(3-Methoxypropyl)sulfamoyl)anilino)-4-(1-
                                                          403791-17-3P, 4-(1-Methylimidazol-5-yl)-2-
        methylimidazol-5-yl)pyrimidine
                                                                           403791-18-4P,
        (4-(N-propylsulfamoyl)anilino)pyrimidine
        2-(4-(N-(2,3-Dihydroxypropyl)sulfamoyl)anilino)-4-(1-methylimidazol-5-
                               403791-19-5P, 2-(4-(N-(2-(2-Hydroxyethoxy)ethyl)sulfamoyl)
        yl)pyrimidine
        anilino)-4-(1-methylimidazol-5-yl)pyrimidine 403791-20-8P,
        2-(4-(N-(2-Furanylmethyl)sulfamoyl)anilino)-4-(1-methylimidazol-5-
                                403791-21-9P, 2-(4-(N-(2-Hydroxyethyl)sulfamoyl)anilino)-4-
        yl)pyrimidine
                                                               403791-22-0P, 2-(4-(N-
        (1-methylimidazol-5-yl)pyrimidine
        (Carbamoylmethyl)sulfamoyl)anilino)-4-(1-methylimidazol-5-yl)pyrimidine
        403791-23-1P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-2-(4-(N-(3-2))-
        methoxypropyl)sulfamoyl)anilino)pyrimidine
                                                                            403791-24-2P,
        4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(4-fluorobenzyl)sulfamoyl)anilino)py
```

```
403791-25-3P, 2-(4-(N-(Cyclopropylmethyl)sulfamoyl)anilino)-4-
(1,2-dimethylimidazol-5-yl)pyrimidine 403791-26-4P
                                                                                                                                                                                                403791-27-5P,
4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-((tetrahydrofuran-2-
                                                                                                                                         403791-28-6P,
yl)methyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                                                                    403791-29-7P,
2-Anilino-4-(1-ethyl-2-methylimidazol-5-yl)pyrimidine
2-Anilino-4-(1-methyl-2-ethylimidazol-5-yl)pyrimidine
                                                                                                                                                                                                  403791-30-0P,
2-Anilino-4-(1-(2,2,2-trifluoroethyl)-2-methylimidazol-5-yl)pyrimidine
403791-31-1P, 2-Anilino-4-(1,2,4-trimethylimidazol-5-yl)pyrimidine
403791-32-2P, 2-Anilino-4-(1-isopropyl-2-methylimidazol-5-yl)pyrimidine
403791-33-3P, 2-Anilino-4-(1-methyl-2-methoxymethylimidazol-5-
                                                       403791-34-4P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-yl)
yl)pyrimidine
((methanesulfonyl)amino)anilino)pyrimidine
                                                                                                                                                             403791-35-5P,
4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(2-methoxyethyl)sulfamoyl)anilino)py
                                      403791-37-7P, 4-(1-Ethyl-2-methylimidazol-5-yl)-2-(4-(N-(2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-(4-(N-(2-yl)-2-yl)-2-(4-(N-(2-yl)-2-
rimidine
methoxyethyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                         403791-38-8P,
4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-((2,2-dimethyl-1,3-dioxolan-4-(1,2-Dimethylimidazol-5-yl))-2-(4-(N-((2,2-dimethyl-1,3-dioxolan-4-(1,2-Dimethylimidazol-5-yl))-2-(4-(N-((2,2-dimethyl-1,3-dioxolan-4-(1,2-Dimethylimidazol-5-yl))-2-(4-(N-((2,2-dimethyl-1,3-dioxolan-4-(1,2-Dimethyl-1,3-dioxolan-4-(1,2-Dimethylimidazol-5-yl))-2-(4-(N-((2,2-dimethyl-1,3-dioxolan-4-(1,2-Dimethyl-1,3-dioxolan-4-(1,2-Dimethyl-1,3-dioxolan-4-(1,2-Dimethyl-1,3-dioxolan-4-(1,2-Dimethyl-1,3-dioxolan-4-(1,2-Dimethyl-1,3-dioxolan-4-(1,2-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl-1,3-Dimethyl
yl)methyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                             403791-39-9P,
4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(2-benzyloxyethyl)sulfamoyl)anilino)
                                             403791-40-2P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(2,2-1))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2-(4-(N-(2,2-1)))-2
pyrimidine
dimethoxyethyl) sulfamoyl) anilino) pyrimidine
                                                                                                                                                              403791-41-3P,
4-(1-Ethyl-2-methylimidazol-5-yl)-2-(4-(N-((tetrahydrofuran-2-
yl)methyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                              403791-42-4P,
4-(1-\text{Ethyl}-2-\text{methylimidazol}-5-\text{yl})-2-(4-(N-(3-\text{methoxypropyl})\,\text{sulfamoyl})\,\text{anili}
                                                        403791-43-5P, 4-(1-Ethyl-2-methylimidazol-5-yl)-2-(4-(N-403791-43-5P))
no)pyrimidine
(cyclopropylmethyl) sulfamoyl) anilino) pyrimidine
                                                                                                                                                                             403791-44-6P,
4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(2-methoxyethyl)-N-
methylsulfamoyl)anilino)pyrimidine
                                                                                                                                403791-45-7P, 4-(1-Ethyl-2-
methylimidazol-5-yl)-2-(4-(N-(2-methoxyethyl)-N-
methylsulfamoyl)anilino)pyrimidine
                                                                                                                                 403791-46-8P, 4-(1,2-Dimethylimidazol-
5-yl)-2-(4-(methanesulfonyl)anilino)pyrimidine
                                                                                                                                                                         403791-47-9P,
4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(3-morpholinopropyl)-N-)
methylsulfamoyl)anilino)pyrimidine 403791-48-0P, 4-(1,2-Dimethylimidazol-
5-yl)-2-(4-(3-(N,N-dimethylamino)propylsulfonyl)anilino)pyrimidine
403791-49-1P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(3,3,3-
trifluoropropylsulfonyl)anilino)pyrimidine
                                                                                                                                                            403791-50-4P,
4-(1,2-Dimethylimidazol-5-yl)-2-(4-butylsulfonylanilino)pyrimidine
403791-51-5P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(3-
methoxypropylsulfonyl)anilino)pyrimidine
                                                                                                                                                   403791-52-6P,
4-(1-Ethyl-2-methylimidazol-5-yl)-2-(4-(N-(2-(methoxymethoxy)ethyl)) sulfamo
                                                                               403791-53-7P, 4-(1-Ethyl-2-methylimidazol-5-yl)-2-
yl)anilino)pyrimidine
(4-(N-cyclopropylsulfamoyl)anilino)pyrimidine 403791-54-8P,
403791-55-9P, 4-(1-Ethyl-2-
ylmethyl)sulfamoyl)anilino)pyrimidine
methylimidazol-5-yl)-2-(4-(N-(3-methylisoxazol-5-
ylmethyl)sulfamoyl)anilino)pyrimidine 403791-56-0P, 4-(1-Ethyl-2-
methylimidazol-5-yl)-2-(4-(N-(1,4-dioxan-2-yl)methylsulfamoyl)anilino)pyri
                               403791-57-1P, 5-Chloro-4-(1,2-dimethylimidazol-5-yl)-2-(4-(N-1)-2-1)
propylsulfamoyl)anilino)pyrimidine 403791-58-2P, 5-Chloro-4-(1,2-
dimethylimidazol-5-yl)-2-(4-(N-(cyclopropylmethyl)sulfamoyl)anilino)pyrimi
                        403791-59-3P, 5-Chloro-4-(1,2-dimethylimidazol-5-yl)-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-3P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-203791-59-2P))-2-(4-(N-(3-203791-59-2P))-2-(4-(N-(3-203791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403791-59-2P))-2-(4-(N-(3-403
methoxypropyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                        403791-60-6P,
5-Chloro-4-(1,2-dimethylimidazol-5-yl)-2-(4-(N-(tert-1),2-dimethylimidazol-5-yl)-2-(4-(N-(tert-1),2-dimethylimidazol-5-yl)-2-(4-(N-(tert-1),2-dimethylimidazol-5-yl)-2-(4-(N-(tert-1),2-dimethylimidazol-5-yl)-2-(4-(N-(tert-1),2-dimethylimidazol-5-yl)-2-(4-(N-(tert-1),2-dimethylimidazol-5-yl)-2-(4-(N-(tert-1),2-dimethylimidazol-5-yl)-2-(4-(N-(tert-1),2-dimethylimidazol-5-yl)-2-(4-(N-(tert-1),2-dimethylimidazol-5-yl)-2-(4-(N-(tert-1),2-dimethylimidazol-5-yl)-2-(4-(N-(tert-1),2-dimethylimidazol-5-yl)-2-(4-(N-(tert-1),2-dimethylimidazol-5-yl)-2-(4-(N-(tert-1),2-dimethylimidazol-5-yl)-2-(4-(N-(tert-1),2-dimethylimidazol-5-yl)-2-(4-(N-(tert-1),2-dimethylimidazol-5-yl)-2-(4-(N-(tert-1),2-dimethylimidazol-5-yl)-2-(4-(N-(tert-1),2-dimethylimidazol-5-yl)-2-(4-(N-(tert-1),2-dimethylimidazol-5-(4-(N-(tert-1),2-dimethylimidazol-5-(4-(N-(tert-1),2-dimethylimidazol-5-(4-(N-(tert-1),2-dimethylimidazol-5-(4-(N-(tert-1),2-dimethylimidazol-5-(4-(N-(tert-1),2-dimethylimidazol-5-(4-(N-(tert-1),2-dimethylimidazol-5-(4-(N-(tert-1),2-dimethylimidazol-5-(4-(N-(tert-1),2-dimethylimidazol-5-(4-(N-(tert-1),2-dimethylimidazol-5-(4-(N-(tert-1),2-dimethylimidazol-5-(4-(N-(tert-1),2-dimethylimidazol-5-(4-(N-(tert-1),2-dimethylimidazol-5-(4-(N-(tert-1),2-dimethylimidazol-5-(4-(N-(tert-1),2-dimethylimidazol-5-(4-(N-(tert-1),2-dimethylimidazol-5-(4-(N-(tert-1),2-dimethylimidazol-5-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1),2-(4-(N-(tert-1)
butyl)sulfamoyl)anilino)pyrimidine 403791-61-7P, 4-(1-(2-Methoxyethyl)-2-
methylimidazol-5-yl)-2-(4-(N-(2-methoxyethyl)sulfamoyl)anilino)pyrimidine
methoxyethyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                      403791-63-9P,
\hbox{2-Anilino-5-browo-4-(1,2-dimethylimidazol-5-yl)} pyrimidine
4-(1-Methyl-2-ethylimidazol-5-yl)-2-(4-(N-(tetrahydrofuran-2-
ylmethyl)sulfamoyl)anilino)pyrimidine 403791-65-1P, 4-(1-Methyl-2-
ethylimidazol-5-yl)-2-(4-(N-(2-methoxyethyl)sulfamoyl)anilino)pyrimidine
403791-66-2P, 4-(1-Methyl-2-isopropylimidazol-5-yl)-2-(4-(N-(2-isopropylimidazol-5-yl))-2-(4-(N-(2-isopropylimidazol-5-yl))-2-(4-(N-(2-isopropylimidazol-5-yl))-2-(4-isopropylimidazol-5-yl)
methoxyethyl) sulfamoyl) anilino) pyrimidine
                                                                                                                                                    403791-67-3P,
4-(1-Methyl-2-isopropylimidazol-5-yl)-2-(4-(N-
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(cyclopropylmethyl) sulfamoyl) anilino) pyrimidine
                                                                                                                                                                        403791-68-4P,
4-(1-Methyl-2-isopropylimidazol-5-yl)-2-(4-(N-(tetrahydrofuran-2-
ylmethyl)sulfamoyl)anilino)pyrimidine 403791-69-5P, 4-(1-Methyl-2-
ethylimidazol-5-yl)-2-(4-(N-(cyclopropylmethyl)sulfamoyl)anilino)pyrimidin
             403791-70-8P, 4-(1-Methyl-2-trifluoromethylimidazol-5-yl)-2-(4-(N-403791-70-8P))
 (tetrahydrofuran-2-ylmethyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                                                                      403791-71-9P,
5-Chloro-4-(1,2-dimethylimidazol-5-yl)-2-(4-(N-tert-butyl-N-
methylsulfamoyl)anilino)pyrimidine 403791-72-0P, 4-(1-Ethyl-2-
methylimidazol-5-yl)-2-(4-(N-allylsulfamoyl)anilino)pyrimidine
methoxyethoxy)ethyl)sulfamoyl)anilino)pyrimidine hydrochloride
methoxyethoxy)ethoxy)ethyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                                                                 403791-75-3P,
methoxyethoxy) ethoxy) ethyl) sulfamoyl) anilino) pyrimidine
hydrochloride
                                                      403791-76-4P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(2-1))-1)
 (methanesulfonyl) ethyl) sulfamoyl) anilino) pyrimidine
                                                                                                                                                                                   403791-77-5P,
4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(3-morpholinopropyl)sulfamoyl)anilin
                                                  o)pyrimidine
dimethylamino)ethyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                                            403791-79-7P,
4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(2-(piperidin-1-
yl)ethyl)sulfamoyl)anilino)pyrimidine 403791-80-0P, 4-(1-(2-
yl)methyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                     403791-81-1P,
4-(1-(2-Methoxyethyl)-2-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-yl)-2-(4-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylimidazol-5-(N-methylim
(cyclopropylmethyl) sulfamoyl) anilino) pyrimidine
                                                                                                                                                                        403791-82-2P,
4-(1-(2-Methoxyethyl)-2-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-(3-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5-(3-methylimidazol-5
methoxypropyl)sulfamoyl)anilino)pyrimidine 403791-83-3P,
4-(1-Ethyl-2-methylimidazol-5-yl)-2-(4-(N-(hydroxyethyl)sulfamoyl)anilino)
                                        403791-84-4P, 4-(1-Ethyl-2-methylimidazol-5-yl)-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))
pyrimidine
hydroxy-2, 2-dimethyl-propyl) sulfamoyl) anilino) pyrimidine
                                                                                                                                                                                                     403791-85-5P,
4-(1-Ethyl-2-methylimidazol-5-yl)-2-(4-(N-(3-hydroxypropyl)sulfamoyl)anili
                                                   4\overline{03791}-86-6P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-1)-2-1)
no)pyrimidine
allylsulfamoyl)anilino)pyrimidine 403791-87-7P, 4-(1,2-Dimethylimidazol-
5-yl)-2-(4-(N-(1-propyn-3-yl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                                                                         403791-88-8P,
4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(2,2-dimethyl-3-
                                                                                                                                                   403791-89-9P,
hydroxypropyl) sulfamoyl) anilino) pyrimidine
4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(3-hydroxypropyl)sulfamoyl)anilino)p
                                        403791-90-2P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-1))
yrimidine
ethylsulfamoyl)anilino)pyrimidine
                                                                                                                      403791-91-3P, 4-(1,2-Dimethylimidazol-
5-yl)-2-(4-(N-(2-hydroxyethyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                                                                         403791-92-4P,
4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(2-(2-hydroxyethoxy)ethyl)sulfamoyl)
anilino)pyrimidine
                                                                     403791-93-5P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-
 ((pyridin-2-yl)methyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                                                   403791-94-6P,
4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-yl)-2-(4-(N-((pyridin-3-((pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin-3-(pyridin
yl)methyl)sulfamoyl)anilino)pyrimidine 403791-95-7P,
4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-pentylsulfamoyl)anilino)pyrimidine
403791-96-8P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl))-2-(4-(N-(5-yl)
hydroxypentyl) sulfamoyl) anilino) pyrimidine
                                                                                                                                                    403791-97-9P,
4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(3-ethoxypropyl)sulfamoyl)anilino)py
                                    403791-98-0P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(2-1))-1)
rimidine
hydroxypropyl) sulfamoyl) anilino) pyrimidine
                                                                                                                                                      403791-99-1P,
4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(3-isopropoxypropyl)sulfamoyl)anilin
                                              403792-00-7P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(2-1))-1)
o)pyrimidine
hydroxybutyl) sulfamoyl) anilino) pyrimidine
                                                                                                                                                  403792-01-8P,
4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(2-(pyridin-2-
                                                                                                                                  403792-02-9P, 4-(1,2-
yl)ethyl)sulfamoyl)anilino)pyrimidine
Dimethylimidazol-5-yl)-2-(4-(N-(2-(pyridin-4-yl)ethyl)sulfamoyl)anilino)py
                                    403792-03-0P, 4-(1-Methyl-2-ethylimidazol-5-yl)-2-(4-(N-
cyclopropylsulfamoyl)anilino)pyrimidine
                                                                                                                                         403792-04-1P,
403792-05-2P,
 (cyclopropylmethyl) sulfamoyl) anilino) pyrimidine
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403792-06-3P,
methoxyethyl)sulfamoyl)anilino)pyrimidine
 4-(1-(2,2,2-Trifluoroethyl)-2-methylimidazol-5-yl)-2-(4-(N-
cyclopropylsulfamoyl)anilino)pyrimidine
                                                                                                                                                                                                403792-07-4P,
 4-(1-Isopropyl-2-methylimidazol-5-yl)-2-(4-(N-(2-inspectation)))
                                                                                                                                                                                                          403792-08-5P,
methoxyethyl)sulfamoyl)anilino)pyrimidine
 4-(1,2,4-Trimethylimidazol-5-yl)-2-(4-(N-(2-methoxyethyl)sulfamoyl)anilino
                                                                403792-09-6P, 5-Bromo-4-(1,2-dimethylimidazol-5-yl)-2-(4-
)pyrimidine
sulfamoylanilino)pyrimidine
                                                                                                                                          403792-10-9P, 5-Bromo-4-(1,2-
dimethylimidazol-5-yl)-2-(4-(N-propylsulfamoyl)anilino)pyrimidine
 403792-11-0P, 5-Bromo-4-(1,2-dimethylimidazol-5-yl)-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3-4))-2-(4-(N-(3
methoxypropyl) sulfamoyl) anilino) pyrimidine
                                                                                                                                                                                                              403792-12-1P,
5-Bromo-4-(1,2-dimethylimidazol-5-yl)-2-(4-(N-mu))
methylsulfamoyl)anilino)pyrimidine
                                                                                                                                                                        403792-13-2P, 5-Bromo-4-(1,2-
dimethylimidazol-5-yl)-2-(4-(N-(cyclopropylmethyl)sulfamoyl)anilino)pyrimi
                                403792-14-3P, 4-(1,2,4-Trimethylimidazol-5-yl)-2-(4-
sulfamoylanilino)pyrimidine
                                                                                                                                       403792-15-4P, 4-(1,2,4-Trimethylimidazol-5-
y1)-2-(4-(N-methylsulfamoyl)anilino)pyrimidine
                                                                                                                                                                                                                                 403792-16-5P,
 4-(1,2,4-Trimethylimidazol-5-yl)-2-(4-(N-(3-(N,N-
                                                                                                                                                                                                                                              403792-17-6P,
dimethylamino)propyl)sulfamoyl)anilino)pyrimidine
 4-(1,2,4-Trimethylimidazol-5-yl)-2-(4-(N-t-butylsulfamoyl)anilino)pyrimidi
                       403792-18-7P, 4-(1,2,4-Trimethylimidazol-5-yl)-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(N-(1,1-1))-2-(4-(
dimethylpropyl) sulfamoyl) anilino) pyrimidine
                                                                                                                                                                                                                  403792-19-8P,
 4-(1,2,4-Trimethylimidazol-5-yl)-2-(4-(N-cyclopropylsulfamoyl)anilino)pyri
                                       403792-20-1P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-1))
                                                                                                                                                                    403792-21-2P, 4-(1,2-Dimethylimidazol-
propylsulfamoyl)anilino)pyrimidine
5-yl)-2-(4-(N-cyclopropylsulfamoyl)anilino)pyrimidine 403792-22-3P,
4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-cyclobutylsulfamoyl)anilino)pyrimidi
                       403792-23-4P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(2,2,2-2))-2-(4-(N-(2,2,2-2))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2-2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,2,2)))-2-(4-(N-(2,
trifluoroethyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                                                                                  403792-24-5P,
 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(3-trifluoromethylphenyl)sulfamoyl)a
                                                                                         403792-25-6P, 4-(1-Ethyl-2-methylimidazol-5-yl)-2-(4-
nilino)pyrimidine
                                                                                                                                                                                403792-26-7P, 4-(1-Ethyl-2-
 (N-methylsulfamoyl)anilino)pyrimidine
\tt methylimidazol-5-yl)-2-(4-(N-(2-(2-(hydroxy)ethoxy)ethyl)sulfamoyl)anilino
                                                                 403792-27-8P, 4-(1-Ethyl-2-methylimidazol-5-yl)-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-27-8P))-2-(4-(N-(3-403792-
)pyrimidine
                                                                                                                                                                                                                                                                       403792-28-9P,
isopropoxy-2-hydroxypropyl)sulfamoyl)anilino)pyrimidine
 yl)oxy)ethyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                                                                    403792-29-0P,
 4 - (1 - \text{Ethyl} - 2 - \text{methylimidazol} - 5 - \text{yl}) - 2 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (2 - ((isothiazol} - 3 - (4 - (N - (4 - ((isothiazol) - (4 - ((isothiazol) - 3 - (4 - ((isothiazol) 
                                                                                                                                                                                                  403792-30-3P,
yl)oxy)ethyl)sulfamoyl)anilino)pyrimidine
 403792-31-4P,
yloxy)ethyl)sulfamoyl)anilino)pyrimidine
 4-(1-Ethyl-2-methylimidazol-5-yl)-2-(4-(N-(3-((isoxazol-3-yl)-2-(4-(N-(3-((isoxazol-3-yl)-2-(4-(N-(3-((isoxazol-3-yl)-2-(4-(N-(3-((isoxazol-3-yl)-2-(4-(N-(3-((isoxazol-3-yl)-2-(4-(N-(3-((isoxazol-3-yl)-2-(4-(N-(3-((isoxazol-3-yl)-2-(4-(N-(3-((isoxazol-3-yl)-2-(4-(N-(3-((isoxazol-3-yl)-2-(4-(N-(3-((isoxazol-3-yl)-2-(4-(N-(3-((isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(isoxazol-3-(i
yl)oxy)propyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                                                                           403792-32-5P,
 4-(1-\text{Ethyl}-2-\text{methylimidazol}-5-\text{yl})-2-(4-(N-(3-((isothiazol}-3-
yl)oxy)propyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                                                                           403792-33-6P,
 4-(1-Ethyl-2-methylimidazol-5-yl)-2-(4-(N-(3-(1,2,5-thiadiazol-3-
                                                                                                                                                                                                  403792-34-7P,
yloxy)propyl)sulfamoyl)anilino)pyrimidine
 4-(1-Methyl-2-ethylimidazol-5-yl)-2-(4-(N-cyclobutylsulfamoyl)anilino)pyri
                                         403792-35-8P, 4-(1-(2,2,2-Trifluoroethyl)-2-methylimidazol-5-yl)-
 2-(4-(N-cyclobutylsulfamoyl)anilino)pyrimidine
                                                                                                                                                                                                                                 403792-36-9P,
 4-(1-Isopropyl-2-methylimidazol-5-yl)-2-(4-(N-isopropyl-2-methylimidazol-5-yl)
cyclobutylsulfamoyl)anilino)pyrimidine
                                                                                                                                                                                           403792-37-0P,
 4-(1-Isopropyl-2-methylimidazol-5-yl)-2-(4-(N-isopropyl-2-methylimidazol-5-yl)
                                                                                                                                                                                               403792-38-1P,
cyclopropylsulfamoyl)anilino)pyrimidine
 4-(1-Isopropyl-2-methylimidazol-5-yl)-2-(4-(N-isopropyl-2-methylimidazol-5-yl)
 (cyclopropylmethyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                                                                                                      403792-39-2P,
 4-(1-Isopropyl-2-methylimidazol-5-yl)-2-(4-(N-
 (cyanomethyl) sulfamoyl) anilino) pyrimidine
                                                                                                                                                                                                        403792-40-5P,
 yl))methyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                                                          403792-41-6P,
 4-(1-Ethy1-2-methylimidazol-5-yl)-2-(4-(N-(5-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2-methylpyrazin-2
ylmethyl)sulfamoyl)anilino)pyrimidine 403792-42-7P, 4-(1-Methyl-2-
methoxymethylimidazol-5-yl)-2-(4-(N-(2-methoxyethyl)sulfamoyl)anilino)pyri
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403792-43-8P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(3-1))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))-2-(4-(N-(3-1)))
 ((isothiazol-3-yl)oxy)propyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                                                                                                                                                                                             403792-44-9P,
 4-(1-Ethyl-2-methylimidazol-5-yl)-2-(4-(N-(2-propynyl)sulfamoyl)anilino)py
                                                         403792-45-0P, 5-Bromo-4-(1,2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-yl)-2-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-(4-(N-(2-dimethylimidazol-5-
methoxyethyl) sulfamoyl) anilino) pyrimidine
                                                                                                                                                                                                                                  403792-46-1P,
5-Bromo-4-(1-ethyl-2-methylimidazol-5-yl)-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-(N-(2-methylimidazol-5-yl))-2-(4-(N-(N-(2-methylimidazol-5-yl))-2-(4-(N-(N-(2-methylimidazol-
methoxyethyl) sulfamoyl) anilino) pyrimidine
                                                                                                                                                                                                                                         403792-47-2P,
5-Bromo-4-(1-(2-methoxyethyl)-2-methylimidazol-5-yl)-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-
methoxyethyl) sulfamoyl) anilino) pyrimidine
                                                                                                                                                                                                                                          403792-48-3P,
5-Bromo-4-(1-(2-methoxyethyl)-2-methylimidazol-5-yl)-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-methylimidazol-5-yl))-2-(4-(N-(3-
methoxypropyl) sulfamoyl) anilino) pyrimidine
                                                                                                                                                                                                                                              403792-49-4P,
 \hbox{5-Chloro-4-(1-ethyl-2-methylimidazol-5-yl)-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methylimidazol-5-yl))-2-(4-(N-(2-methyli
methoxyethyl) sulfamoyl) anilino) pyrimidine
                                                                                                                                                                                                                                          403792-50-7P,
5-Chloro-4-(1,2-dimethylimidazol-5-yl)-2-(4-(N-(2-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}
methoxyethyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                                                                                                         403792-51-8P,
 5-Chloro-4-(1-ethyl-2-methylimidazol-5-yl)-2-(4-(N-(tetrahydrofuran-2-
ylmethyl)sulfamoyl)anilino)pyrimidine 403792-52-9P, 5-Chloro-4-(1-ethyl-
 2-methylimidazol-5-yl)-2-(4-(N-cyclopropylsulfamoyl)anilino)pyrimidine
 403792-53-0P, 5-Chloro-4-(1-(2-methoxyethyl)-2-methylimidazol-5-yl)-2-(4-
 (N-(2-methoxyethyl)sulfamoyl)anilino)pyrimidine
                                                                                                                                                                                                                                                                         403792-55-2P,
 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(2,3-dihydroxypropyl)sulfamoyl)anili
                                                                               403792-57-4P, 5-Chloro-4-(1,2-dimethylimidazol-5-yl)-2-(4-
no)pyrimidine
 sulfamoylanilino)pyrimidine
                                                                                                                                                      403792-59-6P, 5-Chloro-4-(1,2-
 dimethylimidazol-5-yl)-2-(4-(N-methylsulfamoyl)anilino)pyrimidine
 403792-61-0P, 5-Bromo-4-(1-methylimidazol-5-yl)-2-(4-
 sulfamoylanilino)pyrimidine
                                                                                                                                                       403792-62-1P
                                                                                                                                                                                                                                          403792-63-2P,
 2-(3-Chloroanilino)-4-(1-(2-((methanesulfonyl)amino)ethyl)imidazol-5-
                                                                                403792-64-3P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-1))
yl)pyrimidine
methylsulfamoyl)anilino)pyrimidine 403792-65-4P, 4-(1,2-Dimethylimidazol-
 5-yl)-2-(2-methoxy-4-(N-methylsulfamoyl)-5-methylanilino)pyrimidine
 403792-66-5P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazol-2-1))-2-(4-(N-(4,5-dimethyloxazo
 yl) sulfamoyl) anilino) pyrimidine 403792-67-6P,
 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-methylcarbamoyl)anilino)pyrimidine
 403792-68-7P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-
                                                                                                                                                                                    403792-69-8P, 4-(1,2-Dimethylimidazol-5-
  (acetylamino) anilino) pyrimidine
 yl)-2-(4-aminoanilino)pyrimidine
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
  (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
  (Uses)
                  (drug; imidazolo-5-yl-2-anilino-pyrimidines as agents for inhibition of
                 cell proliferation)
 146279-89-2, Cyclin E/cdk2 kinase
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
                 (imidazolo-5-yl-2-anilino-pyrimidines as agents for inhibition of cell
                 proliferation)
 1003-07-2P, 3-0xo-2,3-dihydroisothiazole
                                                                                                                                                                                                                                   1709-52-0P,
                                                                                                                                                                                                    3466-32-8P, 4-
 N-Methyl-4-aminobenzenesulfonamide
                                                                                                                                                                      4241-66-1P, 4-Iodobenzenesulfonyl fluoride
  (Methanesulfonyl)bromobenzene
                                                                                                                                                                                                                                                                         5777-20-8P,
 5728-07-4P, 3-0xo-2,3-dihydro-1,2,5-thiadiazole
 3-Hydroxyisoxazole 7341-96-0P, 2-Propynamide
                                                                                                                                                                                                                                                                   20970-50-7P,
 5-Acetyl-1-methylimidazole 23428-92-4P, 5-(1-Hydroxyethyl)-1-
 methylimidazole 31329-64-3P, 3,5-Dimethyl-4-aminoisoxazole
 39269-74-4P, 1-Benzyl-5-formyl-2-methylimidazole
                                                                                                                                                                                                                                                                               62256-50-2P,
                                                                                                                                                                                                                                                             74356-30-2P,
 4-(1-Hydroxyethyl)-1-triphenylmethylimidazole
                                                                                                                                                                                          103747-85-9P, 5-Acetyl-1-benzyl-2-
 3,5-Dimethyl-4-formamidoisoxazole
                                                                                           116795-55-2P, 4-Acetyl-1-triphenylmethylimidazole
 methylimidazole
 121392-35-6P, 1-(1-Butylsulfanyl)-4-bromobenzene
                                                                                                                                                                                                                                                                              122225-22-3P
 127686-58-2P, 3-Methoxy-1-propanol methanesulfonate
                                                                                                                                                                                                                                                                                               154377-75-0P,
                                                                                                                                                                                                                                                     326885-27-2P,
 N-t-Butoxycarbonyl-4-iodobenzenesulfonamide
 N-(Tetrahydrofur-2-ylmethyl)-4-iodobenzenesulfonamide
                                                                                                                                                                                                                                                                                                         389605-69-0P,
                                                                                                                                                                                                                                                                                                    403792-70-1P,
 4-(N-((Tetrahydrofuran-2-yl)methyl)sulfamoyl)aniline
 5-(3-Dimethylaminoprop-2-en-1-oyl)-1,2-dimethylimidazole
                                                                                                                                                                                                                                                                                                                          403792-71-2P,
 1-Benzyl-5-(3-dimethylaminoprop-2-en-1-oyl)-2-methylimidazole
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403792-72-3P, 2-(3-Chloroanilino)-4-(1-triphenylmethylimidazol-4-
                403792-73-4P, 5-(3-Dimethylaminoprop-2-en-1-oyl)-1-
yl)pyrimidine
                  403792-74-5P
                                403792-75-6P, 5-(3-Dimethylaminoprop-2-en-
methylimidazole
                                  403792-76-7P, 2-Amino-4-(1,2-
1-oyl)-1-ethyl-2-methylimidazole
                                  403792-77-8P, N-(2-Methoxyethyl)-4-
dimethylimidazol-5-yl)pyrimidine
                        403792-78-9P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-yl)
iodobenzenesulfonamide
(N-(tert-butoxycarbonyl)-N-(2-(2-methoxyethoxy)ethyl)sulfamoyl)anilino)pyr
          403792-79-0P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-
imidine
                                    403792-80-3P, 4-(1-(2-Methoxyethyl)-2-
(fluorosulfonyl)anilino)pyrimidine
methylimidazol-5-yl)-2-(4-(fluorosulfonyl)anilino)pyrimidine
403792-81-4P, 4-(3-Dimethylaminoprop-2-en-1-oyl)-1-
                          403792-82-5P, 1-Benzyl-5-(1-hydroxyethyl)-2-
triphenylmethylimidazole
                                403792-84-7P, 1-(1-Butene-4-yl)-5-(3-
                  403792-83-6P
methylimidazole
dimethylaminoprop-2-en-1-oyl)-2-methylimidazole
                                                 403792-85-8P,
5-(3-Dimethylaminoprop-2-en-1-oyl)-1-(isopropyl)-2-methylimidazole
403792-86-9P, \ 5-(3-Dimethylaminoprop-2-en-1-oyl)-1-methyl-2-ethylimidazole
403792-87-0P, 5-(3-Dimethylaminoprop-2-en-1-oyl)-1-(2,2,2-trifluoroethyl)-
2-methylimidazole
                   403792-88-1P, 5-(3-Dimethylaminoprop-2-en-1-oyl)-1-
                             403792-89-2P, 5-(3-Dimethylaminoprop-2-en-1-
methyl-2-isopropylimidazole
oyl)-1-methyl-2-trifluoromethylimidazole
                                          403792-90-5P,
5-(3-Dimethylaminoprop-2-en-1-oyl)-1,2,4-trimethylimidazole
403792-91-6P, 5-(3-Dimethylaminoprop-2-en-1-oyl)-1-methyl-2-
                          403792-92-7P, 2-Amino-4-(1-ethyl-2-
(methoxymethyl)imidazole
                                403792-93-8P, 2-Amino-4-(1-(2-
methylimidazol-5-yl)pyrimidine
methoxyethyl)-2-methylimidazol-5-yl)pyrimidine
                                                403792-94-9P,
2-Amino-4-(1-(1-buten-4-yl)-2-methylimidazol-5-yl)pyrimidine
403792-95-0P, 2-Amino-4-(1-methyl-2-ethylimidazol-5-yl)pyrimidine
403792-96-1P, 2-Amino-4-(1-methyl-2-isopropylimidazol-5-yl)pyrimidine
403792-97-2P, 2-Amino-4-(1-methyl-2-trifluoromethylimidazol-5-
                403792-98-3P, 1-(Triphenylmethyl)-2-methyl-4-(2-
yl)pyrimidine
hydroxyethyl)imidazole
                        403792-99-4P, 1-(Triphenylmethyl)-2-methyl-4-
                  403793-00-0P, 1-Ethyl-2-methyl-5-acetylimidazole
acetylimidazole
403793-01-1P, 1-(2-0xyethyl)-2-methyl-5-acetylimidazole
                                                          403793-02-2P,
                                             403793-04-4P,
1-(1-Buten-4-yl)-2-methyl-5-acetylimidazole
                                                       403793-05-5P,
N-(2-(Methoxymethoxy)ethyl)-4-iodobenzenesulfonamide
N-(Cyclopropylmethyl)-4-iodobenzenesulfonamide
                                                 403793-06-6P
403793-07-7P, N-(2-Benzyloxyethyl)-4-iodobenzenesulfonamide
403793-08-8P, N-(2,2-Dimethoxyethyl)-4-iodobenzenesulfonamide
403793-09-9P, N-(3-Methoxypropyl)-4-iodobenzenesulfonamide
                                                             403793-10-2P,
N-(Cyclopropyl)-4-iodobenzenesulfonamide
                                          403793-11-3P,
N\hbox{-}(4\hbox{-Methylthiazol-2-ylmethyl})\hbox{-}4\hbox{-}iodobenzene sulfonamide}
                                                          403793-12-4P,
N-(3-Methylisoxazol-5-ylmethyl)-4-iodobenzenesulfonamide
                                                          403793-13-5P,
N-(1,4-Dioxan-2-ylmethyl)-4-iodobenzenesulfonamide
                                                     403793-14-6P,
                                   403793-15-7P, N-(tert-Butyl)-4-
N-Propyl-4-iodobenzenesulfonamide
                        403793-16-8P, N-Allyl-4-iodobenzenesulfonamide
iodobenzenesulfonamide
403793-17-9P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-(tert-butoxycarbonyl)-1)
N-(2-(2-(2-methoxyethoxy)ethoxy)ethyl)sulfamoyl)anilino)pyrimidine
N-(2-(2-(2-(2-methoxyethoxy)ethoxy)ethoxy)ethyl)sulfamoyl)anilino)pyrimidi
     403793-19-1P, 2-Amino-5-bromo-4-(1,2-dimethylimidazol-5-yl)pyrimidine
403793-20-4P, N-(2-Methoxyethyl)-N-methyl-4-iodobenzenesulfonamide
403793-21-5P, N-(3-Morpholinopropyl)-N-methyl-4-iodobenzenesulfonamide
403793-22-6P, N-(tert-Butyl)-N-methyl-4-iodobenzenesulfonamide
403793-23-7P, N-(3-Morpholinopropyl)-4-iodobenzenesulfonamide
403793-24-8P, 1-(3-(N,N-Dimethylamino)propylthio)-4-bromobenzene
403793-25-9P, 1-(3,3,3-Trifluoropropylthio)-4-bromobenzene
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1-((3-(N, N-Dimethylamino)propyl)sulfonyl)-4-bromobenzene
                                                           403793-27-1P,
                                                   403793-28-2P
1-(3,3,3-Trifluoropropylsulfonyl)-4-bromobenzene
403793-29-3P, 1-(3-Methoxypropylsulfonyl)-4-bromobenzene
                                                           403793-30-6P,
3-(2-(tert-Butoxycarbonylamino)ethoxy)isoxazole
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3-(2-(tert-Butoxycarbonylamino)ethoxy)-1,2,5-thiadiazole
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3-(3-(tert-Butoxycarbonylamino)propoxy)isoxazole
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3-(3-(tert-Butoxycarbonylamino)propoxy)isothiazole
                                                         403793-35-1P,
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    3-(3-(tert-Butoxycarbonylamino)propoxy)-1,2,5-thiadiazole
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    3-(2-Aminoethoxy) isothiazole hydrochloride
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    5-Methyl-4-(N-methyl-N-propionylamino)isoxazole
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    1-Methyl-2-ethyl-5-acetylimidazole
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    isobutyrylamino)isoxazole
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                      403793-46-4P, 4-(Isopropylamino)-5-methylisoxazole
    acetylimidazole
    403793-47-5P, 5-Methyl-4-(N-isopropylacetylamino)isoxazole
                                                                 403793-48-6P,
                                             403793-49-7P,
    5-Acetyl-1-isopropyl-2-methylimidazole
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    dimethylimidazol-5-yl)-5-chloropyrimidine
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    1,2,4-Trimethyl-5-acetylimidazole
    N-(5-methyl-4-isoxazolyl)acetamide
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    Trifluoroethyl)-2-methyl-5-acetylimidazole
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        (intermediate; imidazolo-5-yl-2-anilino-pyrimidines as agents for
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    50-01-1, Guanidine hydrochloride
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     98-62-4, 4-Aminobenzenesulfonyl fluoride
    100-66-3, Anisole, reactions 104-95-0, 4-Bromothioanisole
                                                                  106-53-6,
                       107-30-2, Chloromethyl methyl ether
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     4-Bromothiophenol
    2-Methoxyethylamine 111-77-3, 2-(2-Methoxyethoxy)ethanol
     4-(3-Aminopropyl)morpholine 460-32-2, 3-Bromo-1,1,1-trifluoropropane
    540-61-4, Aminoacetonitrile 623-47-2, Ethyl propiolate
                                                            929-06-6,
    Cyclopropylamine 825-86-5, 4-Iodobenzenesulfonamide
    2-(2-Aminoethoxy)ethanol 1193-88-0, 2-Methyl-4-(2-hydroxyethyl)imidazole
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    1589-49-7, 3-Methoxy-1-propanol
     2516-34-9, Cyclobutylamine 2516-47-4, Cyclopropylmethylamine
     3731-51-9, 2-Aminomethylpyridine
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                                      5407-04-5, 3-(Dimethylamino)propyl
     5332-73-0, 3-Methoxypropylamine
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     chloride hydrochloride
     Phenylguanidine hydrogen carbonate
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     78210-66-9, 2-Methyl-4-acetylimidazole 103747-74-6, 2,2,2-
    Trifluoroacetic acid N-(5-Methyl-4-isoxazolyl)amide 103747-77-9,
                                          103747-79-1, 5-Acetyl-2-
     5-Acetyl-2-(methoxymethyl)imidazole
     (trifluoromethyl)imidazole 103747-80-4, 5-Methyl-4-
                                           112981-50-7, 2-Methoxyethyl
     (methylamino)isoxazole hydrochloride
               127175-39-7, 2-Phthalimidoethyl triflate
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        inhibition of cell proliferation)
              THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
(1) Adams, J; WO 0137835 A 2001 HCAPLUS
(2) Bilodeau, M; US 5859041 A 1999 HCAPLUS
     403792-67-6P, 4-(1,2-Dimethylimidazol-5-yl)-2-(4-(N-
    methylcarbamoyl)anilino)pyrimidine
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
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        (drug; imidazolo-5-yl-2-anilino-pyrimidines as agents for inhibition of
```

TT

cell proliferation)

RN 403792-67-6 HCAPLUS

CN Benzamide, 4-[[4-(1,2-dimethyl-1H-imidazol-5-yl)-2-pyrimidinyl]amino]-N-methyl- (9CI) (CA INDEX NAME)

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ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2003 ACS on STN
     2001:152681 HCAPLUS
ΑN
DN
     134:193444
     Preparation of imidazo[1,2-a]pyridinylpyrimidines and pyrazolo[2,3-
TΙ
     a]pyridinylpyrimidines as inhibitors of CDK2, CDK4, and CDK6 cell cycle
     Thomas, Andrew Peter; Breault, Gloria Anne; Beattie, John Franklin;
ΙN
     Jewsbury, Phillip John
     Astrazeneca AB, Swed.; Astrazeneca UK Limited
PA
SO
     PCT Int. Appl., 81 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
IC
     ICM C07D471-04
         A61K031-437; A61P035-00; C07D471-04; C07D235-00; C07D221-00;
          C07D471-04; C07D231-00; C07D221-00
     28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
CC
     Section cross-reference(s): 1
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BG 106383 Α 20020930 NO 2002000832 Α 20020412 PRAI GB 1999-19778 Α 19990821 <--WO 2000-GB3139 W 20000815 <--OS MARPAT 134:193444

B2

Α

20030227

20030616

AU 2000-65833

BG 2002-106383

EE 2002-80

NO 2002-832

20000815 <--

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20020204 <---

20020220 <--

GΙ

AU 757639

EE 200200080

Ι

$$(R^1)_n$$
 N
 $NHB(R^3)_p(R^4)_q$
 $(R^2)_mA$

Title compds. [I; A = imidazo[1,2a]pyrid-3-yl, pyrazolo[2,3a]pyrid-3-yl; AΒ R1 = halo, NO2, cyano, OH, CF3, OCF3, amino, CO2H, sulfamoyl, (substituted) alkyl, alkenyl, alkynyl, alkoxy, alkanoyl, alkanoyloxy, Ph, heterocyclyl, etc.; R2 = halo, NO2, cyano, OH, CF3, OCF3, amino, CO2H, SH, carbamoyl, sulfamoyl, (substituted) alkyl, alkenyl, alkynyl, alkoxyl, Ph, heterocyclyl, PhS, etc.; R3 = halo, NO2, cyano, OH, amino, CO2H, carbamoyl, SH, sulfamoyl, alkenyl, alkynyl; m = 0-5; n = 0-2; Ring B = Ph or Ph fused to a C5-7 cycloalkyl ring; p = 0-4; R4 = AE; A = (substituted) alkyl, Ph, heterocyclyl, cycloalkyl, phenylalkyl, heterocyclylalkyl, cycloalkylcycloalkyl; E = bond, O, CO, CO2, NRaCO, NRa, S, SO, SO2, SO2NRa; q = 0-2; p+q.ltoreq.5], were prepd. Thus, NaH was added to 3-chloroaniline in N-methylpyrrolidone; after 30 min. 4-(2methylimidazo[1,2-a]pyridin-3-yl)-2-methylthiopyrimidine (prepn. given) in N-methylpyrrolidone was added and the mixt. was heated at 150.degree. for 3 h to give 21% 2-(3-chloroanilino)-4-(2-methylimidazo[1,2-a]pyrid-3yl)pyrimidine. 2-[4-(2-Diethylaminoethoxy)anilino]-4-(imidazo[1,2-a]pyrid-3-yl)pyrimidine showed CDK2 inhibitory activity with IC50 = 0.17 .mu.M. imidazopyridinylpyrimidine pyrazolopyridinylpyrimidine prepn cell cycle ST kinase inhibitor; pyrimidine imidazopyridinyl prepn cell cycle kinase inhibitor; cyclin dependent protein kinase inhibitor imidazopyridinylpyrimidine prepn; anticancer imidazopyridinylpyrimidine pyrazolopyridinylpyrimidine prepn; fibroproliferative disorder treatment imidazopyridinylpyrimidine pyrazolopyridinylpyrimidine prepn; differentiative disorder treatment imidazopyridinylpyrimidine pyrazolopyridinylpyrimidine prepn

IT Sarcoma

(Kaposi's, treatment; prepn. of imidazo[1,2-a]pyridinylpyrimidines and pyrazolo[2,3-a]pyridinylpyrimidines as inhibitors of CDK2, CDK4, and CDK6 cell cycle kinases)

IT Antiarteriosclerotics

(antiatherosclerotics; prepn. of imidazo[1,2-a]pyridinylpyrimidines and pyrazolo[2,3-a]pyridinylpyrimidines as inhibitors of CDK2, CDK4, and CDK6 cell cycle kinases)

IT Blood vessel, neoplasm

(hemangioma, treatment; prepn. of imidazo[1,2-a]pyridinylpyrimidines and pyrazolo[2,3-a]pyridinylpyrimidines as inhibitors of CDK2, CDK4, and CDK6 cell cycle kinases)

IT Anti-inflammatory agents

Antiarthritics

Antitumor agents

(prepn. of imidazo[1,2-a]pyridinylpyrimidines and pyrazolo[2,3-a]pyridinylpyrimidines as inhibitors of CDK2, CDK4, and CDK6 cell cycle kinases)

IT Artery, disease

(restenosis, treatment; prepn. of imidazo[1,2-a]pyridinylpyrimidines and pyrazolo[2,3-a]pyridinylpyrimidines as inhibitors of CDK2, CDK4, and CDK6 cell cycle kinases)

IT Eye, disease

(treatment of diseases with retinal vessel proliferation; prepn. of imidazo[1,2-a]pyridinylpyrimidines and pyrazolo[2,3-a]pyridinylpyrimidines as inhibitors of CDK2, CDK4, and CDK6 cell cycle kinases)

IT Atherosclerosis
Autoimmune disease

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Bone, disease
    Kidney, disease
     Psoriasis
        (treatment; prepn. of imidazo[1,2-a]pyridinylpyrimidines and
       pyrazolo[2,3-a]pyridinylpyrimidines as inhibitors of CDK2, CDK4, and
        CDK6 cell cycle kinases)
     141349-86-2, Cyclin-dependent protein kinase 2
                                                      147014-97-9,
ΙT
    Cyclin-dependent protein kinase 4 303014-92-8, Cyclin-dependent protein
     RL: BPR (Biological process); BSU (Biological study, unclassified); MSC
     (Miscellaneous); BIOL (Biological study); PROC (Process)
        (inhibitors; prepn. of imidazo[1,2-a]pyridinylpyrimidines and
        pyrazolo[2,3-a]pyridinylpyrimidines as inhibitors of CDK2, CDK4, and
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        (prepn. of imidazo[1,2-a]pyridinylpyrimidines and pyrazolo[2,3-
        a]pyridinylpyrimidines as inhibitors of CDK2, CDK4, and CDK6 cell cycle
        kinases)
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ΙT
     50-01-1, Guanidine hydrochloride
     Thiourea, reactions
                         63-74-1, Sulfanilamide 74-89-5, Methylamine,
                 75-36-5, Acetyl chloride
                                            98-62-4, Sulfanilyl fluoride
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                                          100-58-3, Phenylmagnesium bromide
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                                        108-42-9, 3-Chloroaniline
     107-10-8, 1-Propylamine, reactions
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     2032-35-1, Bromoacetaldehyde diethyl acetal
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     5036-48-6, 1-(3-Aminopropyl)imidazole
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     6295-87-0, 1-Aminopyridinium iodide
                                          6325-93-5, 4-Nitrobenzenesulfonamide
     7663-77-6, 1-(3-Aminopropyl)-2-oxopyrrolidine
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     2-Amino-4-methoxypyridine
                                15150-25-1, Benzoyl cyanamide
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                                           18471-73-3, 2-Amino-4-
                     46460-73-5, 3-(Benzyloxycarbonylamino)propylamine
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     75178-96-0, 3-(tert-Butoxycarbonylamino)propylamine
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        (prepn. of imidazo[1,2-a]pyridinylpyrimidines and pyrazolo[2,3-
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a]pyridinylpyrimidines as inhibitors of CDK2, CDK4, and CDK6 cell cycle

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kinases)
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        a]pyridinylpyrimidines as inhibitors of CDK2, CDK4, and CDK6 cell cycle
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              THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
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(1) Smithkline Beecham Corp; WO 9640143 A 1996 HCAPLUS
(2) Zimmermann, J; US 5521184 A 1996 HCAPLUS
     328061-72-9P 328061-73-0P 328062-00-6P
     328062-01-7P
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     BIOL (Biological study); PREP (Preparation); USES (Uses)
        (prepn. of imidazo[1,2-a]pyridinylpyrimidines and pyrazolo[2,3-
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     328061-72-9 HCAPLUS
     Benzamide, 4-[(4-imidazo[1,2-a]pyridin-3-yl-2-pyrimidinyl)amino]-N,N-
CN
     dimethyl- (9CI) (CA INDEX NAME)
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RN 328061-73-0 HCAPLUS

CN Benzamide, 4-[(4-imidazo[1,2-a]pyridin-3-yl-2-pyrimidinyl)amino]-N-methyl-(9CI) (CA INDEX NAME)

RN 328062-00-6 HCAPLUS

CN Benzamide, 4-[(4-imidazo[1,2-a]pyridin-3-yl-2-pyrimidinyl)amino]-N-[3-(1H-imidazol-1-yl)propyl]- (9CI) (CA INDEX NAME)

RN 328062-01-7 HCAPLUS

CN Benzamide, 4-[(4-imidazo[1,2-a]pyridin-3-yl-2-pyrimidinyl)amino]-N-[3-(2-oxo-1-pyrrolidinyl)propyl]- (9CI) (CA INDEX NAME)

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L10 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2003 ACS on STN
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AN 2001:137207 HCAPLUS

DN 134:178569

TI Preparation of as isoxazolylpyrimidines and related compounds as inhibitors of c-JUN N-terminal kinases and other protein kinases.

IN Green, Jeremy; Bemis, Guy; Grillot, Anne-Laure; Ledeboer, Mark; Salituro, Francis; Harrington, Edmund; Gao, Huai; Baker, Christopher; Cao, Jingrong; Hale, Michael

PA Vertex Pharmaceuticals Incorporated, USA

SO PCT Int. Appl., 96 pp. CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D401-04 ICS C07D405-04; C07D403-04; C07D413-04; A61K031-341; A61K031-4155; A61K031-4192; A61K031-42

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1

FAN.CNT 1

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APPLICATION NO.
                                                             DATE
    PATENT NO.
                      KIND DATE
                                                             20000811 <--
    WO 2001012621
                            20010222
                                            WO 2000-US22445
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     US 2000-211517P
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os MARPAT 134:178569

GI

$$QNR^{3}R^{1}$$

$$Q1 = N$$

$$X \times Z$$

$$I$$

$$A$$

$$NH$$

$$Q^{2} = A - N$$

$$V$$

Title compds. [I; XYZ = NOCR2, ON:CR2, N:NNR3, OC(R2):CR2, NN(R3)CR2; R1 = H, CONH2, TnR, TnAr2; R = (substituted) aliphatyl; n = 0, 1; T = CO, CO2, CONH, SO2, SO2NH, COCH2, CH2; R2 = H, R, CH2OR, CH2OH, CHO, CH2SR, CH2SO2R, CH2NH2, CH2CN, (substituted) aryl, arylmethyl, heterocyclyl, heterocyclylmethyl, etc.; R3 = H, R, COR, CO2R, SO2R; G = R, Ar1; Ar1 = (substituted) (fused) aryl, aralkyl, heterocyclyl; Q = Q1, Q2; A = N, CR3; U = CR3, O, S, NR3; Ar2 = (substituted) (fused) aryl, heterocyclyl], were prepd. Thus, 4-(5-methyl-3-phenylisoxazole-4-yl)pyrimidin-2-ylamine (prepn. given) was refluxed with PhBr, tris(dibenzylideneacetone)dipalladi um, BINAP, and NaOCMe3 were refluxed together for 16 h to give 36% 4-(5-methyl-3-phenylisoxazole-4-yl)pyrimidin-2-ylphenylamine. Several I inhibited KNK3 at <0.1 .mu.M.

isoxazolylpyrimidine prepn protein kinase inhibitor; JNK inhibitor isoxazolylpyrimidine prepn; pyrimidine isoxazolyl prepn protein kinase inhibitor; antiinflammatory isoxazolylpyrimidine prepn; autoimmune disease treatment isoxazolylpyrimidine; bone disorder treatment isoxazolylpyrimidine; antiinfective isoxazolylpyrimidine prepn; neurodegenerative disease isoxazolylpyrimidine prepn; antiallergy isoxazolylpyrimidine prepn; hypoxia treatment isoxazolylpyrimidine treatment

IT Nervous system

(degeneration, treatment; prepn. of as isoxazolylpyrimidines and related compds. as inhibitors of c-JUN N-terminal kinases and other protein kinases)

IT Heart, disease

(hypertrophy, treatment of organ hypoxia; prepn. of as isoxazolylpyrimidines and related compds. as inhibitors of c-JUN N-terminal kinases and other protein kinases)

IT Cytokines

RL: BPR (Biological process); BSU (Biological study, unclassified); MSC (Miscellaneous); BIOL (Biological study); PROC (Process)

(inflammatory, treatment of conditions assocd. with proinflammatory cytokines; prepn. of as isoxazolylpyrimidines and related compds. as inhibitors of c-JUN N-terminal kinases and other protein kinases)

IT Allergy inhibitors

Anti-infective agents

Anti-inflammatory agents

Platelet aggregation inhibitors

(prepn. of as isoxazolylpyrimidines and related compds. as inhibitors of c-JUN N-terminal kinases and other protein kinases)

IT Bone, disease

(treatment of destructive bone disorders; prepn. of as isoxazolylpyrimidines and related compds. as inhibitors of c-JUN N-terminal kinases and other protein kinases)

IT Hypoxia, animal

(treatment of organ hypoxia; prepn. of as isoxazolylpyrimidines and related compds. as inhibitors of c-JUN N-terminal kinases and other protein kinases)

IT Hyperplasia

(treatment of vascular hyperplasia; prepn. of as isoxazolylpyrimidines and related compds. as inhibitors of c-JUN N-terminal kinases and other

protein kinases) ΙT Autoimmune disease (treatment; prepn. of as isoxazolylpyrimidines and related compds. as inhibitors of c-JUN N-terminal kinases and other protein kinases) 289898-51-7, c-JUN N-terminal kinase IT RL: BPR (Biological process); BSU (Biological study, unclassified); MSC (Miscellaneous); BIOL (Biological study); PROC (Process) (inhibitors; prepn. of as isoxazolylpyrimidines and related compds. as inhibitors of c-JUN N-terminal kinases and other protein kinases) 326817-96-3P 326817-97-4P 326817-98-5P 326817-99-6P IT 326817-95-2P 326818-00-2P 326818-01-3P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of as isoxazolylpyrimidines and related compds. as inhibitors of c-JUN N-terminal kinases and other protein kinases) 326818-22-8 **326818-24-0** ΙT 264616-56-0 326818-26-2 326818-27-3 326818-29-5 326818-31-9 326818-32-0 326818-34-2 326818-37-5 326818-38-6 326818-39-7 326818-40-0 326818-41-1 326818-43-3 326818-46-6 326818-42-2 326818-44-4 326818-45-5 326818-48-8 326818-47-7 326818-49-9 326818-50-2 326818-51-3 326818-53-5 326818-55-7 326818-56-8 326818-57-9 326818-52-4 326818-60-4 326818-61-5 326818-62-6 326818-59-1 326818-58-0 326818-64-8 326818-65-9 326818-66-0 326818-67-1 326818-63-7 326818-70-6 326818-71-7 326818-72-8 326818-68-2 326818-69-3 326818-75-1 326818-74-0 326818-76-2 326818-77-3 326818-73-9 326818-80-8 326818-81-9 326818-82-0 326818-78-4 326818-79-5 326818-86-4 326818-88-6 326818-85-3 326818-84-2 326818-83-1 326818-90-0 326818-91-1 326818-92-2 326818-93-3 326818-89-7 326818-94-4 326818-95-5 326818-96-6 326818-97-7 326818-98-8 326819-02-7 326819-03-8 326818-99-9 326819-00-5 326819-01-6 326819-07-2 326819-08-3 326819-04-9 326819-05-0 326819-06-1 326819-12-9 326819-13-0 326819-11**-**8 326819-09-4 326819-10-7 326819-15-2 326819-17-4 326819-18-5 326819-14-1 326819-16-3 326819-19-6 326819-20-9 326819-21-0 326819-22-1 326819-23-2 326819-25-4 326819-27-6 326819-28-7 326819-24-3 326819-26-5 326819-31-2 326819-32-3 326819-33-4 326819-29-8 326819-30-1 326819-36-7 326819-35-6 326819-37-8 326819-40-3 326819-34-5 326819-44-7 326819-45-8 326819-43-6 326819-42-5 326819-41-4 326819-47-0 326819-48-1 326819-50-5 326819-51-6 326819-46-9 326819-54-9 326819-55-0 326819-56-1 326819-52-7 326819-53-8 326819-58-3 326819-59-4 326819-60-7 326819-61-8 326819-57-2 326819-64-1 326819-65-2 326819-66-3 326819-62-9 326819-63-0 326819-68-5 326819-70-9 326819-71-0 326819-67-4 326819-69-6 326819-73-2 326819-75-4 326819-76-5 326819-72-1 326819-74-3 326819-79-8 326819-77-6 326819-78-7 326819-80-1 326819-81-2 326819-86-7 326819-83-4 326819-84-5 326819-85-6 326819-82-3 326819-90-3 326819-91-4 326819-87-8 326819-89-0 326819-88-9 326819-94-7 326819-95-8 326819-96-9 326819-93-6 326819-92-5 326820-01-3 326819-99-2 326820-00-2 326819-98-1 326819-97-0 326820-04-6 326820-05-7 326820-06-8 326820-03-5 326820-02-4 326820-08-0 326820-09-1 326820-10-4 326820-11-5 326820-07-9 326820-16-0 326820-14-8 326820-15-9 326820-12-6 326820-13-7 326820-19-3 326820-20-6 326820-21-7 326820-17-1 326820-18-2 326820-24-0 326820-25-1 326820-26-2 326820-22-8 326820-23-9 326820-30-8 326820-28-4 326820-29-5 326820-31-9 326820-27-3 326820-35-3 326820-33-1 326820-34-2 326820-36-4 326820-32-0 326820-37-5 326820-38-6 326820-39-7 326820-40-0 326820-41-1 326820-42-2 326820-43-3 326820-44-4 326820-45-5 326820-46-6 326820-50-2 326820-47-7 326820-48-8 326820-49-9 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(prepn. of as isoxazolylpyrimidines and related compds. as inhibitors of c-JUN N-terminal kinases and other protein kinases)

62-53-3, Aniline, reactions ΙT 50-01-1, Guanidine hydrochloride 100-52-7, Benzaldehyde, reactions Methylmagnesium bromide 105-45-3, Methyl acetoacetate 108-86-1, Bromobenzene, reactions 108-91-8, Cyclohexylamine, reactions 110-91-8, Morpholine, reactions 123-54-6, Pentane-2, 4-dione, reactions 372-09-8, Cyanoacetic acid 403-43-0, 614-16-4, Benzoylacetonitrile 683-58-9, 4-Fluorobenzoyl chloride 4637-24-5, Dmf dimethyl acetal 4926-28-7, Acetyl chloride oxime 2-Bromo-4-methylpyridine 14001-63-9, 4-Methyl-2-methylsulfanylpyrimidine 27489-62-9, trans-4-Aminocyclohexanol 78191-00-1, N-Methoxy-N-265125-00-6 methylacetamide 104863-68-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of as isoxazolylpyrimidines and related compds. as inhibitors of c-JUN N-terminal kinases and other protein kinases)

ΙT 698-16-8P, Benzoyl chloride oxime 932-90-1P, Benzaldehyde oxime 2065-28-3P 19212-42-1P 89479-66-3P 127916-08-9P 1136-45-4P 264256-23-7P 326818-02-4P 326818-03-5P 326818-04-6P 326818-06-8P 326818-07-9P 326818-08-0P 326818-09-1P 326818-10-4P 326818-11-5P 326818-12-6P 326818-13-7P 326818-14-8P 326818-15-9P 326818-16-0P 326818-17-1P 326818-19-3P 326818-21-7P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)
(prepn. of as isoxazolylpyrimidines and related compds. as inhibitors of c-JUN N-terminal kinases and other protein kinases)

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD

(1) Hassan, S; 1997, 19, P581 HCAPLUS

(2) Ihle; J Org Chem 1996, V61(14), P4810 HCAPLUS

- (3) Ikeda, M; Degradation of a fungicide, mepanipyrim, in soils 1998, V23(1), P1 HCAPLUS
- (4) Khisamutdinov, G; Khim -Farm Zh 1968, V2(8), P35 HCAPLUS
- (5) Nishiwaki, N; Heterocycles 1996, V43(6), P1179 HCAPLUS
- (6) Oku; US 5356897 A 1994 HCAPLUS
- (7) Paul, R; J Med Chem 1993, V36(19), P2716 HCAPLUS
- (8) Payne; US 5668148 A 1997 HCAPLUS
- (9) Schwab; US 5814627 A 1998 HCAPLUS
- (10) Sokolov, S; Zhor Obshchei Khim 1960, V30, P1781 HCAPLUS
- (11) Torley; US 4876252 A 1989 HCAPLUS
- IT 326818-24-0

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(prepn. of as isoxazolylpyrimidines and related compds. as inhibitors of c-JUN N-terminal kinases and other protein kinases)

RN 326818-24-0 HCAPLUS

CN Benzamide, 3-methyl-4-[[4-(5-methyl-3-phenyl-4-isoxazolyl)-2-pyrimidinyl]amino]- (9CI) (CA INDEX NAME)

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ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2003 ACS on STN
L10
     1998:293493 HCAPLUS
ΑN
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     129:4655
ΤI
     2-Pyrimidineamines and their preparation
     Davis, Peter David; Moffat, David Festus Charles; Batchelor, Mark James;
TN
     Hutchings, Martin Clive; Parry, David Mark
     Celltech Therapeutics Ltd., UK; Davis, Peter David; Moffat, David Festus
PA
     Charles; Batchelor, Mark James; Hutchings, Martin Clive; Parry, David Mark
     PCT Int. Appl., 58 pp.
SO
     CODEN: PIXXD2
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     Patent
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     ICS C07D401-14; A61K031-505
     28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
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     MARPAT 129:4655
OS
GI
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The title compds. [I; Ar = (un) substituted arom. group; R = H, halo, ZR2; R1 = (un) substituted heterocyclyl; R2 = (un) substituted alk(en)yl or alkynyl; Z = bond, linker atom or group] and their salts, solvates, hydrates and N-oxides, selective inhibitors of tyrosine kinases ZAP-70 and Syk (no data), useful in the prophylaxis and treatment of immune or allergic diseases and diseases involving inappropriate platelet activation, were prepd. Pharmaceutical compns. contg. I are also claimed. For example, refluxing a soln. of 3,4,5-trimethoxyphenylguanidine, 1-(2-chloropyridin-5-yl)-3-dimethylamino-2-propen-1-one [prepn. from 5-acetyl-2-chloropyridine and Me2NCH(OEt)2 given] and NaOH in Me2CHOH gave 4-(2-chloropyridin-5-yl)-N-(3,4,5-trimethoxyphenyl)-2-pyridineamine which was heated with piperazine at 140.degree. to give a title compd. II (m. 134-135.degree.).

pyrimidineamine deriv prepn protein kinase inhibitor; acetylchloropyridine condensation DMF diethyl acetal; chloropyridinyldimethylaminopropenone prepn cyclocondensation trimethoxyphenylguanidine; methoxyphenylguanidine cyclocondensation chloropyridinyldimethylaminopropenone; chloropyridinyltrimethoxyphenylpyridineamine prepn amination piperazine; piperazinylpyridinyltrimethoxyphenylpyridineamine prepn protein kinase inhibitor

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207282-09-5P
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ΙT
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RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(2-pyrimidineamines and their prepn.)

IT 5460-29-7, 3-Bromopropylphthalimide

ΙT

RL: RCT (Reactant); RACT (Reactant or reagent)

(2-pyrimidineamines and their prepn.)

13360-57-1, Dimethylsulfamoyl chloride

```
RL: RCT (Reactant); RACT (Reactant or reagent)
         (amidation of pyridinylpyrimidineamine deriv.; 2-pyrimidineamines and
         their prepn.)
     103-76-4, 1-(2-Hydroxyethyl)piperazine
                                                108-49-6, 2,6-Dimethylpiperazine
TΤ
                                     perazine 108-49-6, 2,6-Dimet
109-07-9, 2-Methylpiperazine
     109-01-3, 1-Methylpiperazine
                                                                      110-85-0,
     Piperazine, reactions
                              110-89-4, Piperidine, reactions
                                                                  110-91-8,
                              123-90-0, Thiomorpholine
     Morpholine, reactions
                                                          140-31-8,
     1-(2-Aminoethyl)piperazine
                                    505-66-8, Homopiperazine
                                                                3388-79-2,
                                      3433-37-2, 2-(Hydroxymethyl)piperidine
     2-(2-Hydroxyethyl)piperazine
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     4318-37-0, 1-Methylhomopiperazine
                                                5382-16-1, 4-Hydroxypiperidine 13961-37-0, 2-Ethylpiperazine
     5317-32-8, 1-(3-Hydroxypropyl)piperazine
     6269-89-2, 1-(4-Nitrophenyl)piperazine
     28795-50-8, 2-Piperazinemethanol
                                          45347-82-8, 3-Hydroxyazetidine
     74879-18-8, 2(S)-Methylpiperazine
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     132958-72-6
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         (amination of (chloropyridinyl)pyrimidineamine deriv.;
         2-pyrimidineamines and their prepn.)
     108-69-0, 3,5-Dimethylaniline
·IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
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         prepn.)
      32779-37-6, 2,5-Dibromopyrimidine
TΤ
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      207284-27-3
TT
     RL: RCT (Reactant); RACT (Reactant or reagent)
         (hydrogenation; 2-pyrimidineamines and their prepn.)
     191727-50-1P
IT
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
      (Reactant or reagent)
         (prepn. and amination with cyclic amines; 2-pyrimidineamines and their
         prepn.)
                     207284-17-1P
ΙT
      207284-14-8P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
      (Reactant or reagent)
         (prepn. and deprotection; 2-pyrimidineamines and their prepn.)
ΙT
      57004-62-3P
                    207284-10-4P
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      RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
      (Reactant or reagent)
         (prepn. and reaction with (chloropyridinyl)dimethylaminopropenone;
         2-pyrimidineamines and their prepn.)
IT
      22777-05-5P
                    207284-20-6P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
      (Reactant or reagent)
         (prepn. and reaction with (chloropyridinyl)pyrimidineamine deriv.;
         2-pyrimidineamines and their prepn.)
      55676-22-7P, 5-Acetyl-2-chloropyridine
IΤ
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
      (Reactant or reagent)
         (prepn. and reaction with DMF di-Et acetal; 2-pyrimidineamines and
         their prepn.)
ΙT
      207284-18-2P
      RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
      (Reactant or reagent)
         (prepn. and reaction with TentaGel S-PHB resin; 2-pyrimidineamines and
         their prepn.)
ΙT
      204771-71-1P
      RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
      (Reactant or reagent)
         (prepn. and reaction with aniline deriv.; 2-pyrimidineamines and their
         prepn.)
      207284-16-0DP, resin-bound
ΙT
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and reaction with anilines; 2-pyrimidineamines and their
        prepn.)
IΤ
    73406-97-0P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and reaction with di-tert-Bu dicarbonate; 2-pyrimidineamines
        and their prepn.)
                    207284-19-3P
ΙT
    153747-97-8P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and reaction with dichloropyrimidine; 2-pyrimidineamines and
        their prepn.)
    170140-83-7P
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    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and reaction with phenylquanidine derivs.; 2-pyrimidineamines
        and their prepn.)
                    207284-11-5P
                                   207284-13-7P
ΙT
    207284-08-0P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
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        (prepn. and reaction with piperazine; 2-pyrimidineamines and their
        prepn.)
ΙT
    207284-22-8P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and reaction with trichloroaniline; 2-pyrimidineamines and
        their prepn.)
IΤ
     63808-67-3P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and redn.; 2-pyrimidineamines and their prepn.)
ΙT
    138674-26-7, Protein tyrosine kinase Syk
                                                148047-34-1, Protein tyrosine
    kinase ZAP-70
    RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (prepn. of 2-pyrimidineamines as protein kinase inhibitors)
    5680-79-5, Methyl glycinate hydrochloride
IT
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with (S)-4-ethyloxazolidine-2,5-dione; 2-pyrimidineamines and
        their prepn.)
ΙT
    57004-63-4
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with (dimethylamino) propenone deriv.; 2-pyrimidineamines and
        their prepn.)
ΙT
    420-04-2, Cyanamide
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with (dimethylaminoethoxy)aniline; 2-pyrimidineamines and
        their prepn.)
    29774-83-2
ΤТ
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with Me glycinate; 2-pyrimidineamines and their prepn.)
    2937-50-0, Allyl chloroformate
ΙT
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with [(piperazinyl)pyridinyl]pyrimidine deriv.;
        2-pyrimidineamines and their prepn.)
ΙT
    1188-33-6, Dimethylformamide diethyl acetal
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with acetylchloropyridine; 2-pyrimidineamines and their
    207410-25-1DP, TentaGel S-PHB, reaction products with
IT
     (nitrophenyl)chloroformate, condensates with [(piperazinyl)pyridinyl]pyrim
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idine deriv.

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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (reaction with anilines; 2-pyrimidineamines and their prepn.)
IT
    24424-99-5, Di-tert-Butyl dicarbonate
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with bromo(piperazinyl)pyridine; 2-pyrimidineamines and their
    108-59-8, Dimethyl malonate
IT
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with chloronicotinyl chloride; 2-pyrimidineamines and their
                                  10272-07-8, 3,5-Dimethoxyaniline
IT
     6315-89-5, 4-Aminoveratrole
     62345-76-0, 4-(2-Dimethylaminoethoxy)aniline
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with cyanamide; 2-pyrimidineamines and their prepn.)
ΙT
    58757-38-3
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with di-Me malonate; 2-pyrimidineamines and their prepn.)
    3934-20-1, 2,4-Dichloropyrimidine
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    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with lithiated bromopyridine deriv.; 2-pyrimidineamines and
       their prepn.)
     634-91-3, 3,4,5-Trichloroaniline
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    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with pyridinylpyrimidine deriv.; 2-pyrimidineamines and their
       prepn.)
    62-53-3, Benzenamine, reactions 93-05-0, 4-N, N-Diethylaminoaniline
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    95-64-7, 3,4-Dimethylaniline 99-05-8, 3-Aminobenzoic acid
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    4-Chloroaniline, reactions
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    1877-77-6, 3-Hydroxymethylaniline 2735-04-8, 2,4-Dimethoxyaniline
    2835-68-9, 4-Aminobenzamide 4344-55-2, 4-Butoxyaniline 6299-67-8,
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    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with resin-bound [(chloropyrimidinyl)pyridinyl]piperazine
       carbonate; 2-pyrimidineamines and their prepn.)
             THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
(1) Celltech; WO 9719065 A 1997 HCAPLUS
(2) Ciba-Geigy; WO 9509847 A 1995 HCAPLUS
(3) Ciba-Geigy; WO 9509853 A 1995 HCAPLUS
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ΙT
    RL: BAC (Biological activity or effector, except adverse); BSU (Biological
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        (2-pyrimidineamines and their prepn.)
    207283-10-1 HCAPLUS
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    Benzamide, 4-[[4-[6-(1-piperazinyl)-3-pyridinyl]-2-pyrimidinyl]amino]-
     (9CI) (CA INDEX NAME)
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OS

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CASREACT 108:112478

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ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2003 ACS on STN
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    Preparation of 4,5,6-substituted 2-pyrimidinamines as allergy inhibitors,
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     antiasthmatics, and hypoglycemics
     Torley, Lawrence Wayne; Johnson, Bernard B.; Dusza, John Paul
IN
    American Cyanamid Co., USA
PA
    Eur. Pat. Appl., 94 pp.
SO
    CODEN: EPXXDW
DT
    Patent
LA
    English
    ICM C07D401-04
IC
    ICS C07D403-04; C07D405-04; C07D409-04; C07D417-04; A61K031-505
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The title compds. [I; R1 = H, C1-3 alkyl, EtO2CCO, Et2NCH2CH2; R2 = substituted Ph; R3 = Me2NC6H4, AcNMeC6H4, (un)substituted furanyl, thienyl, N-contg. heteroaryl; R4, R5 = H, C1-3 alkyl] and their pharmacol. acceptable salts were prepd. for treating asthma and allergic diseases, inflammation, and diabetes mellitus. A mixt. of 7.04 g 3-(dimethylamino)-1-(3-pyridinyl)-2-propen-1-one and 18.72 g 3-F3CC6H4NHC(:NH)NH2.H2CO3 was refluxed 16 h in PrOH to give 5.55 g pyridinylpyrimidinamine II. II inhibited histamine release from immunol. stimulated human basophils with an IC50 of 0.7 .mu.M. II also gave 58.1% inhibition of lipoxygenase activity in guinea pig neutrophils at 10 .mu.g/mL.

ST heteroarylpyrimidinamine prepn drug; pyrimidinamine heteroaryl prepn drug; allergy inhibitor heteroarylpyrimidinamine prepn; antiasthmatic heteroarylpyrimidinamine prepn; antiinflammatory heteroarylpyrimidinamine prepn; hypoglycemic heteroarylpyrimidinamine prepn

IT Allergy inhibitors

Antidiabetics and Hypoglycemics

Inflammation inhibitors

(heteroarylpyrimidinamines)

IT Diabetes mellitus

(treatment of, heteroarylpyrimidinamines for)

IT Bronchodilators

ΙT

(antiasthmatics, heteroarylpyrimidinamines)

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23309-09-3P
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     3240-94-6P, 4-(2-Chloroethyl)morpholine
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

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     112722-62-0P
                    112722-63-1P
     113094-81-8P
                    113102-65-1P
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
        (prepn. of, as drug)
ΙT
     74-89-5, reactions
                           75-12-7, reactions
                                                 80-41-1, 2-Chloroethyl tosylate
     96-79-7, 2-(Diisopropylamino)ethyl chloride
                                                     100-35-6,
     2-Chlorotriethylamine
                              100-36-7, N, N-Diethylethylenediamine
                                                                       105 - 36 - 2,
                           107-99-3, 2-Chloro-N, N-dimethylethylamine
                                                                         109-01-3,
     Ethyl bromoacetate
                           109-54-6, 3-Chloro-N, N-dimethylpropylamine
     1-Methylpiperazine
                                        321-73-3
                                                 402-67-5, 1-Fluoro-3-
     288-32-4, Imidazole, reactions
                     420-04-2, Cyanamide
                                            554-84-7, m-Nitrophenol
                                                                       563-41-7,
     nitrobenzene
     Semicarbazide hydrochloride
                                    591-27-5, m-Aminophenol
                                                                703-80-0,
                       1072-83-9, 2-Acetylpyrrole
                                                     1122-62-9, 2-Acetylpyridine
     3-Acetylindole
     3647-69-6, 4-(2-Chloroethyl) morpholine hydrochloride
                                                              4637-24-5, DMF
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5418-95-1 5815-08-7 dimethyl acetal 4755-77-5, Ethyl oxalyl chloride 13679-74-8, 2-Acetyl-5-methylthiophene 16060-65-4, 6291-89-0 22118-09-8, Bromoacetyl chloride 24503-25-1 p-Guanidinobenzoic acid 38647-86-8 42823-46-1, p-Guanidinobenzoic acid 34772-98-0 55314-16-4 56923-83-2 61705-88-2 61705-91-7 hydrochloride 112676-90-1 112677-01-7 112677-02-8 112676-89-8 66521-53-7 112677-21-1 112677-20-0 112677-22-2 112677-23-3 112677-19-7 112677-28-8 112677-26-6 112677-27-7 112677-24-4 112677-25-5 112677-32-4 112677-33-5 112677-34-6 112677-29-9 112677-31-3 112677-38-0 112677-39-1 112677-40-4 112677-41-5 112677-36-8 112677-46-0 112677-47-1 112677-42-6 112677-43-7 112677-44-8 112677-51-7 112677-52-8 112677-50-6 112677-48-2 112677-49-3 112677-55-1 112677-56-2 112677-57-3 112677-53-9 112677-54-0 112677-61-9 112677-62-0 112677-58-4 112677-59-5 112677-60-8 112677-63-1 112677-64-2 112720-40-8 RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, in prepn. of pyridinamine pharmaceuticals)

IT 1193-79-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, in prepn. of pyrimidinamine pharmaceuticals)

112676-85-4P 112676-86-5P ΙT

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as drug)

RN 112676-85-4 HCAPLUS

CN Benzamide, N-[2-(diethylamino)ethyl]-4-[[4-(3-pyridinyl)-2pyrimidinyl]amino]- (9CI) (CA INDEX NAME)

RN 112676-86-5 HCAPLUS

Benzamide, N-methyl-4-[[4-(3-pyridinyl)-2-pyrimidinyl]amino]- (9CI) (CA CN INDEX NAME)

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L12 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2003 ACS on STN

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2002:449662 HCAPLUS
ΑN
     137:33310
DN
ΤI
     Preparation of anilinopyrimidines as IKK inhibitors
     Kois, Adam; MacFarlane, Karen J.; Satoh, Yoshitaka; Bhagwat, Shripad
ΤN
     S.; Parnes, Jason S.; Palanki, Moorthy S. S.; Erdman, Paul E.
PA
     Signal Pharmaceuticals, Inc., USA
SO
     PCT Int. Appl., 194 pp.
     CODEN: PIXXD2
DT
     Patent
     English
LA
     ICM C07D239-42
IC
          C07D401-12; C07D405-12; C07D413-12; C07D403-12; A61K031-505;
     ICS
          A61P029-00
     28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
CC
     Section cross-reference(s): 1, 10
FAN.CNT 1
                       KIND
                                             APPLICATION NO.
     PATENT NO.
                             DATE
                                             WO 2001-US46403
                                                               20011205 <--
PΙ
     WO 2002046171
                        A2
                             20020613
                        А3
                             20030123
     WO 2002046171
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
             UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
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PRAI US 2000-251816P
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     WO 2001-US46403
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                                                                  DIALOG
     MARPAT 137:33310
                                                                     --;;;_-
OS
                                                             A THOMSON COMPANY
GΙ
                                                  These two refs are applicants/ patent anis - Too many hits to display - only ( perse reference
                         Ŕ6
                                Ι
     The title compds. [I; R1 = (un)substituted
AB
     alkyl; R4 = halo, OH, alkyl, alkoxy; R5, R6
     etc.; or NR5R6 = (un) substituted heterocyc
     etc.; a = 0-4] having activity as inhibito:
     were prepd. E.g., a multi-step synthesis of I [R1 = 4-ClC6H4; RZ-R6 = H]
     having an IC50 of .ltoreq. 1 .mu.M in the IKK-2 enzyme assay, was given.
     Such compds. I have utility in the treatment of a wide range of conditions
     that are responsive to IKK inhibition. Thus, methods of treating such
     conditions are also disclosed, as are pharmaceutical compns. contg. one or
     more compds. of the above compds.
     anilinopyrimidine prepn IKK2 kinase inhibitor; IkappaB protein kinase
ST
     inhibitor anilino pyrimidine prepn
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(Crohn's; prepn. of anilinopyrimidines as IKK inhibitors)

(acute, treatment of; prepn. of anilinopyrimidines as IKK inhibitors) IT Nose, disease

Intestine, disease

Respiratory distress syndrome

ΙT

IT

(allergic rhinitis, treatment of; prepn. of anilinopyrimidines as IKK inhibitors) Nervous system, disease IT (amyotrophic lateral sclerosis, treatment of; prepn. of anilinopyrimidines as IKK inhibitors) Antiarteriosclerotics IT (antiatherosclerotics; prepn. of anilinopyrimidines as IKK inhibitors) TT Tumor necrosis factors RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (anticancer agent; prepn. of anilinopyrimidines as IKK inhibitors) ΙT Bronchi, disease (bronchitis, treatment of; prepn. of anilinopyrimidines as IKK inhibitors) ΙT Uterus (cervix, inhibitors; prepn. of anilinopyrimidines as IKK inhibitors) Lung, disease ΙT (chronic obstructive, treatment of; prepn. of anilinopyrimidines as IKK inhibitors) Intestine, disease IT (colitis, treatment of mucous colitis; prepn. of anilinopyrimidines as IKK inhibitors) ΙT Intestine, neoplasm (colon, treatment of; prepn. of anilinopyrimidines as IKK inhibitors) Intestine, neoplasm ΙT (colorectal, treatment of; prepn. of anilinopyrimidines as IKK inhibitors) ΙT Eye, disease (conjunctivitis, treatment of; prepn. of anilinopyrimidines as IKK inhibitors) Artery, disease ΙT (coronary, restenosis, treatment of restenosis following angioplasty; prepn. of anilinopyrimidines as IKK inhibitors) Metabolism, animal ΙT (disorder, treatment of; prepn. of anilinopyrimidines as IKK inhibitors) ΙT Esophagus, disease (esophagitis, treatment of; prepn. of anilinopyrimidines as IKK inhibitors) Stomach, disease ΙT (gastritis; prepn. of anilinopyrimidines as IKK inhibitors) Transplant and Transplantation ΙT (graft-vs.-host reaction, treatment of; prepn. of anilinopyrimidines as IKK inhibitors) ΙŢ Sexual behavior (impotence, treatment of; prepn. of anilinopyrimidines as IKK inhibitors) ΙT Heart, disease (infarction, treatment of; prepn. of anilinopyrimidines as IKK inhibitors) ΙT Intestine, disease (inflammatory, treatment of; prepn. of anilinopyrimidines as IKK inhibitors) IΤ Bladder, neoplasm Esophagus, neoplasm Kidney, neoplasm Larynx, neoplasm Mouth, neoplasm Ovary, neoplasm Pharynx, neoplasm Testis, neoplasm Uterus, neoplasm (inhibitors; prepn. of anilinopyrimidines as IKK inhibitors)

Intestine, disease

ΙT

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(irritable bowel syndrome, treatment of; prepn. of anilinopyrimidines
        as IKK inhibitors)
ΙT
     Brain, disease
        (ischemia; prepn. of anilinopyrimidines as IKK inhibitors)
     Heart, disease
IT
        (left ventricle, hypertrophy, treatment of; prepn. of
        anilinopyrimidines as IKK inhibitors)
     Neck, anatomical
IT
        (neoplasm, treatment of; prepn. of anilinopyrimidines as IKK
        inhibitors)
     Kidney, disease
ΙT
        (nephritis, treatment of; prepn. of anilinopyrimidines as IKK
        inhibitors)
     Diabetes mellitus
ΙT
        (non-insulin-dependent, treatment of; prepn. of anilinopyrimidines as
        IKK inhibitors)
     Pancreas, disease
ΙT
        (pancreatitis, treatment of; prepn. of anilinopyrimidines as IKK
        inhibitors)
IT
     Nose, neoplasm
        (polyp, treatment of; prepn. of anilinopyrimidines as IKK inhibitors)
ΙT
     Allergy inhibitors
     Anti-inflammatory agents
     Anti-ischemic agents
     Antiasthmatics
     Anticonvulsants
     Antidiabetic agents
     Antirheumatic agents
     Antitumor agents
     Antiviral agents
     Cardiovascular agents
     Epilepsy
     Human
     Immunosuppressants
     Multiple organ failure
     Transplant rejection
        (prepn. of anilinopyrimidines as IKK inhibitors)
     Shock (circulatory collapse)
IT
        (septic, treatment of; prepn. of anilinopyrimidines as IKK inhibitors)
     Spinal column, disease
ΙT
        (spondylitis, treatment of rheumatoid spondylitis; prepn. of
        anilinopyrimidines as IKK inhibitors)
ΙT
     Brain, disease
        (stroke; prepn. of anilinopyrimidines as IKK inhibitors)
ΙT
     Ischemia
        (treatment of ischemic diseases of kidney and liver; prepn. of
        anilinopyrimidines as IKK inhibitors)
     AIDS (disease)
TΤ
     Alzheimer's disease
     Asthma
     Autoimmune disease
     Brain, neoplasm
     Bronchi, neoplasm
     Cachexia
     Cystic fibrosis
     Dermatitis
     Eczema
     Gout
     Head, neoplasm
     Heart, disease
     Hepatitis
     Hepatitis B virus
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Hepatitis C virus

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Human T-lymphotropic virus
    Human herpesvirus 4
    Inflammation
    Liver, neoplasm
    Lung, neoplasm
    Lupus erythematosus
    Multiple sclerosis
    Osteoarthritis
    Osteoporosis
    Pancreas, neoplasm
    Parkinson's disease
    Prostate gland, neoplasm
    Psoriasis
    Purpura (disease)
    Rheumatoid arthritis
    Sepsis
    Skin, neoplasm
    Stomach, neoplasm
        (treatment of; prepn. of anilinopyrimidines as IKK inhibitors)
ΙT
    Intestine, disease
        (ulcerative colitis, treatment of; prepn. of anilinopyrimidines as IKK
       inhibitors)
ΙT
    Interferons
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (.alpha., anticancer agent; prepn. of anilinopyrimidines as IKK
       inhibitors)
TΤ
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (.gamma., anticancer agent; prepn. of anilinopyrimidines as IKK
       inhibitors)
                                          50-76-0, Actinomycin D
                                                                   50-91-9,
              50-18-0, Cyclophosphamide
ΙT
                                                                 55-98-1,
                  51-21-8, 5-Fluorouracil 52-53-9, Verapamil
    Floxuridine
                                                              70-51-9,
               57-22-7, Vincristine 59-05-2, Methotrexate
                  127-07-1, Hydroxyurea 147-94-4, Cytarabine
                                                                  154 - 42 - 7,
    Deferoxamine
                                        299-75-2, Treosulfan
                                                                305-03-3,
                  154-93-8, Carmustine
    Thioguanine
                                             865-21-4, Vinblastine
                   574-93-6, Phthalocyanine
    Chlorambucil
    3094-09-5, Doxifluridine
                                                      3778-73-2, Ifosfamide
                               3562-63-8, Megestrol
    4342-03-4, Dacarbazine
                             9060-10-0, Bleomycin B2 10540-29-1, Tamoxifen
    11116-31-7, Bleomycin A2
                               13010-47-4, Lomustine
                                                       13311-84-7, Flutamide
                           20830-81-3, Daunorubicin
                                                       21679-14-1, Fludarabine
    15663-27-1, Cisplatin
    22089-22-1, Trofosfamide
                               23214-92-8, Doxorubicin
                                                         24280-93-1,
    Mycophenolic acid
                       29767-20-2, Teniposide 31441-78-8, Mercaptopurine
                                                     36791-04-5, Ribavirin
    33069-62-4, Paclitaxel
                             33419-42-0, Etoposide
    41575-94-4, Carboplatin
                             48134-75-4, 1-Methyl-4-phenylpyridinium
    52128-35-5, Trimetrexate
                               53643-48-4, Vindesine
                                                       54083-22-6, Zorubicin
    56420-45-2, Epirubicin
                             58957-92-9, Idarubicin
                                                      60084-10-8, Tiazofurin
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                                65271-80-9, Mitoxantrone
                                                           67526-95-8,
                   68247-85-8, Peplomycin
                                            71486-22-1, Vinorelbine
    Thapsigargin
                                                               75330-75-5,
    72496-41-4, Pirarubicin
                              74381-53-6, Leuprolide acetate
    Lovastatin 84449-90-1, Raloxifene
                                          90357-06-5, Bicalutamide
    91421-43-1, 9-Aminocamptothecin
                                     96389-68-3, Crisnatol
                                                              118908-07-9,
            123948-87-8, Topotecan
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                                                           131875-08-6, KH
    EICAR
           167678-65-1, CB 1093
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (anticancer agent; prepn. of anilinopyrimidines as IKK inhibitors)
ΙT
    50-33-9, Phenylbutazone, biological studies
                                                 50-78-2, Acetylsalicylic
                                                         57-96-5,
           53-86-1, Indomethacin
                                  57-66-9, Probenecid
                     58-15-1, Aminopyrine 60-80-0, Antipyrine
                                                                  61-68-7,
     Sulfinpyrazone
                      64-86-8, Colchicine 69-72-7, Salicylic acid, biological
    Mefenamic acid
              103-90-2, Acetaminophen 119-36-8, Methylsalicylate
     studies
     Oxyphenbutazone
                       315-30-0, Allopurinol 552-94-3, Salsalate
                                                                    599-79-1,
                     3562-84-3, Benzbromarone 6385-02-0, Meclofenamate sodium
     Sulfasalazine
                                 12244-57-4, Gold sodium thiomalate
     12192-57-3, Aurothioglucose
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15307-86-5, Dichlofenac
                                                15687-27-1, Ibuprofen
13539-59-8, Apazone
15722-48-2, Olsalazine
                         21256-18-8, Oxaprozin 22071-15-4, Ketoprofen
                      22494-42-4, Diflunisal 26159-34-2, Naproxen
22204-53-1, Naproxen
         26171-23-3, Tolmetin 29679-58-1, Fenoprofen
                                                          34031-32-8,
                                    38194-50-2, Sulindac
                                                            41340-25-4,
            36322-90-4, Piroxicam
Auranofin
                                    51803-78-2, Nimesulide
           42924-53-8, Nabumetone
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Etodolac
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Tenoxicam
            71125-38-7, Meloxicam
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Droxicam
           169590-42-5, Celecoxib
                                     170277-31-3, Infliximab
Rofecoxib
185243-69-0, Enbrel
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
    (antiinflammatory agent; prepn. of anilinopyrimidines as IKK
   inhibitors)
                                  362517-43-9, IKK-2 kinase
159606-08-3, IKK protein kinase
'RL: BSU (Biological study, unclassified); BIOL (Biological study)
    (prepn. of anilinopyrimidines as IKK inhibitors)
434945-83-2P 434947-59-8P 434947-63-4P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
preparation); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); RACT (Reactant or reagent); USES (Uses)
    (prepn. of anilinopyrimidines as IKK inhibitors)
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434946-07-3P 434946-08-4P 434946-09-5P

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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
   (prepn. of anilinopyrimidines as IKK inhibitors)
434947-33-8P 434947-34-9P 434947-35-0P
434947-36-1P 434947-37-2P 434947-38-3P
434947-39-4P 434947-40-7P 434947-41-8P
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434947-82-7P 434947-83-8P 434947-84-9P
434947-85-0P 434947-86-1P 434947-87-2P
434947-88-3P 434947-89-4P 434947-90-7P
434947-91-8P 434947-92-9P 434947-93-0P
434947-94-1P 434947-95-2P 434947-96-3P
434947-97-4P 434947-98-5P 434947-99-6P
434948-00-2P 434948-01-3P 434948-02-4P
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434948-03-5P 434948-04-6P 434948-05-7P

ΤТ

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434950-32-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
   (prepn. of anilinopyrimidines as IKK inhibitors)
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434950-36-4P 434950-37-5P 434950-38-6P

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434950-39-7P 434950-40-0P 434950-41-1P
    434950-42-2P 434950-43-3P 434950-44-4P
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    434950-51-3P 434950-52-4P 434950-53-5P
    RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (prepn. of anilinopyrimidines as IKK inhibitors)
    98-09-9, Benzenesulfonyl chloride 99-91-2, 1-(4-Chlorophenyl)ethan-1-one
ΤТ
               106-54-7, p-Chlorobenzenethiol
                                                109-01-3, N-Methylpiperazine
    100-19-6
    110-91-8, Morpholine, reactions
                                      877-96-3
                                                1768-64-5,
                              1788-10-9, 4-Acetylbenzenesulfonyl chloride
    4-Chlorotetrahydropyran
                                   2835-68-9, 4-Aminobenzamide
    2637-34-5, 2-Mercaptopyridine
                                                                  4556-23-4,
                                                        14970-83-3,
                         5308-25-8, N-Ethylpiperazine
    4-Mercaptopyridine
                            16060-65-4, 4-Guanidinobenzoic acid
                                                                  16133-26-9,
    4-Hydroxybutanethiol
                         18503-89-4, N,N-Dimethylformamide diisopropylacetal
    3-Mercaptopyridine
    19721-22-3, 3-Mercaptopropanol 38430-55-6, Ethyl 4-acetylbenzoate
                                                          112677-03-9, Methyl
    40004-08-8, Ethyl 2-piperazinylacetate
                                             40172-95-0
                                          309271-25-8 434950-69-3
    4-(guanidino)benzoate hydrochloride
                 434950-71-7
                               434950-72-8
    434950-70-6
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (prepn. of anilinopyrimidines as IKK inhibitors)
                                              99433-25-7P
                                                             122228-09-5P,
                  67382-35-8P
                                78089-99-3P
TT
    58722-35-3P
    4-Guanidinobenzoic acid methyl ester
                                            175203-08-4P, 4-(4-
    Chlorophenyl)pyrimidine-2-thiol
                                     178055-98-6P
                                                      203246-71-3P
                                                               434941-56-7P,
     434941-55-6P, 4-(4-Chlorophenyl)-2-methylthiopyrimidine
     4-(4-Chlorophenyl)-2-(methylsulfonyl)pyrimidine
                                                       434941-57-8P,
    N-[(4-Aminocarbonyl)phenyl]guanidine nitrate
                                                   434941-58-9P
                                                                   434941-60-3P
                                               434950-56-8P,
    434941-61-4P
                  434950-54-6P 434950-55-7P
     4-[4-(4-Chlorophenyl)pyrimidin-2-ylamino]benzoic acid
                                                             434950-57-9P
    434950-58-0P 434950-59-1P 434950-60-4P
                                 434950-63-7P
                                                434950-64-8P
    434950-61-5P 434950-62-6P
                   434950-66-0P
                                   434950-67-1P
                                                 434950-68-2P
     434950-65-9P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. of anilinopyrimidines as IKK inhibitors)
TΤ
    434945-83-2P
    RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
    preparation); THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); RACT (Reactant or reagent); USES (Uses)
        (prepn. of anilinopyrimidines as IKK inhibitors)
     434945-83-2 .HCAPLUS
RN
    1-Piperazinecarboxylic acid, 4-[4-[[4-(4-chlorophenyl)-2-
CN
    pyrimidinyl]amino]benzoyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX
    NAME)
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L12 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:449661 HCAPLUS

DN 137:33309

TI Preparation of anilinopyrimidines as JNK pathway inhibitors

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IN
     Kois, Adam; MacFarlane, Karen J.; Satoh, Yoshitaka; Bhagwat, Shripad
     S.; Parnes, Jason S.; Palanki, Moorthy S. S.; Erdman, Paul E.
PA
     Signal Pharmaceuticals, Inc., USA
SO
     PCT Int. Appl., 199 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
IC
     ICM C07D239-00
     28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
CC
     Section cross-reference(s): 1, 10
FAN.CNT 1
     PATENT NO.
                      KIND
                            DATE
                                            APPLICATION NO.
                                                             DATE
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                            20020613
                                            WO 2001-US46402
                                                            20011205 <--
   · WO 2002046170
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             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
             UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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                            20020618
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                                                             20011205 <--
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PRAI US 2000-251904P
                       Ρ
                            20001206
                            20011205
     WO 2001-US46402
                       W
     MARPAT 137:33309
OS
GI
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The title compds. [I; R1 = (un)substituted (hetero)aryl; R2 = H; R3 = H, alkyl; R4 = halo, OH, alkyl, alkoxy; R5, R6 = R8, (CH2)aCOR9, (CH2)aCO2R9, etc.; or NR5R6 = (un)substituted heterocycle; R8, R9 = H, alkyl, aryl, etc.; a = 0-4] having activity as inhibitors of the JNK pathway, were prepd. E.g., a multi-step synthesis of I [R1 = 4-ClC6H4; R2-R6 = H] having an IC50 of .ltoreq. 10 .mu.M in the JNK2 assay, was given. Such compds. I have utility in the treatment of a wide range of conditions that are responsive to inhibition of the JNK pathway. Thus, methods of treating such conditions are also disclosed, as are pharmaceutical compns. contg. one or more compds. of the above compds.

Ι

ST anilinopyrimidine prepn JNK inhibitor

IT Intestine, disease

(Crohn's; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Respiratory distress syndrome

(acute, treatment of; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Nose, disease

(allergic rhinitis, treatment of; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Nervous system, disease

(amyotrophic lateral sclerosis, treatment of; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Antiarteriosclerotics

(antiatherosclerotics; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Tumor necrosis factors

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (anticancer agent; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Bronchi, disease

(bronchitis, treatment of; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Uterus

(cervix, inhibitors; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Lung, disease

(chronic obstructive, treatment of; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Intestine, disease

(colitis, treatment of mucous colitis; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Intestine, neoplasm

(colon, treatment of; prepn. of anilinopyrimidines as JNK pathway
inhibitors)

IT Intestine, neoplasm

(colorectal, treatment of; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Eye, disease

(conjunctivitis, treatment of; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Artery, disease

(coronary, restenosis, treatment of restenosis following angioplasty; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Metabolism, animal

(disorder, treatment of; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Esophagus, disease

(esophagitis, treatment of; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Stomach, disease

(gastritis; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Transplant and Transplantation

(graft-vs.-host reaction, treatment of; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Sexual behavior

(impotence, treatment of; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Heart, disease

(infarction, treatment of; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Intestine, disease

(inflammatory, treatment of; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Bladder, neoplasm

Esophagus, neoplasm

Kidney, neoplasm

Larynx, neoplasm

Mouth, neoplasm

Ovary, neoplasm

Pharynx, neoplasm

Testis, neoplasm

Uterus, neoplasm

(inhibitors; prepn. of anilinopyrimidines as JNK pathway inhibitors)

IT Intestine, disease

(irritable bowel syndrome, treatment of; prepn. of anilinopyrimidines as JNK pathway inhibitors)

```
ΙT
     Brain, disease
        (ischemia; prepn. of anilinopyrimidines as JNK pathway inhibitors)
IT
     Heart, disease
        (left ventricle, hypertrophy, treatment of; prepn. of
        anilinopyrimidines as JNK pathway inhibitors)
     Neck, anatomical
IT
        (neoplasm, treatment of; prepn. of anilinopyrimidines as JNK pathway
        inhibitors)
     Kidney, disease
ΙT
        (nephritis, treatment of; prepn. of anilinopyrimidines as JNK pathway
        inhibitors)
IT
     Diabetes mellitus
        (non-insulin-dependent, treatment of; prepn. of anilinopyrimidines as
        JNK pathway inhibitors)
IT
     Pancreas, disease
        (pancreatitis, treatment of; prepn. of anilinopyrimidines as JNK
        pathway inhibitors)
IΤ
     Nose, neoplasm
        (polyp, treatment of; prepn. of anilinopyrimidines as JNK pathway
        inhibitors)
     Allergy inhibitors
IT
     Anti-inflammatory agents
     Anti-ischemic agents
     Antiasthmatics
     Anticonvulsants
     Antidiabetic agents
     Antirheumatic agents
     Antitumor agents
     Antiviral agents
     Cardiovascular agents
     Epilepsy
     Human
     Immunosuppressants
     Multiple organ failure
     Transplant rejection
        (prepn. of anilinopyrimidines as JNK pathway inhibitors)
     Shock (circulatory collapse)
ΙT
        (septic, treatment of; prepn. of anilinopyrimidines as JNK pathway
        inhibitors)
     Spinal column, disease
IT
        (spondylitis, treatment of rheumatoid spondylitis; prepn. of
        anilinopyrimidines as JNK pathway inhibitors)
ΙT
     Brain, disease
        (stroke; prepn. of anilinopyrimidines as JNK pathway inhibitors)
IT
     Ischemia
        (treatment of ischemic diseases of kidney and liver; prepn. of
        anilinopyrimidines as JNK pathway inhibitors)
ΙT
     AIDS (disease)
     Alzheimer's disease
     Asthma
     Autoimmune disease
     Brain, neoplasm
     Bronchi, neoplasm
     Cachexia
     Cystic fibrosis
     Dermatitis
     Eczema
     Gout
     Head, neoplasm
     Heart, disease
     Hepatitis
     Hepatitis B virus
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Hepatitis C virus

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Human T-lymphotropic virus
    Human herpesvirus 4
    Inflammation
    Liver, neoplasm
    Lung, neoplasm
    Lupus erythematosus
    Multiple sclerosis
    Osteoarthritis
    Osteoporosis
    Pancreas, neoplasm
    Parkinson's disease
    Prostate gland, neoplasm
    Psoriasis
    Purpura (disease)
    Rheumatoid arthritis
    Sepsis
    Skin, neoplasm
    Stomach, neoplasm
        (treatment of; prepn. of anilinopyrimidines as JNK pathway inhibitors)
ΙT
    Intestine, disease
        (ulcerative colitis, treatment of; prepn. of anilinopyrimidines as JNK
       pathway inhibitors)
ΙT
    Interferons
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (.alpha., anticancer agent; prepn. of anilinopyrimidines as JNK pathway
       inhibitors)
IT
    Interferons
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (.gamma., anticancer agent; prepn. of anilinopyrimidines as JNK pathway
       inhibitors)
              50-18-0, Cyclophosphamide
                                          50-76-0, Actinomycin D
                                                                   50-91-9,
ΙT
                 51-21-8, 5-Fluorouracil 52-53-9, Verapamil
                                                                55-98-1,
    Floxuridine
              57-22-7, Vincristine 59-05-2, Methotrexate
                                                             70-51-9,
    Busulfan
    Deferoxamine
                  127-07-1, Hydroxyurea 147-94-4, Cytarabine
                                                                 154-42-7
                                         299-75-2, Treosulfan
                  154-93-8, Carmustine
                                                               305-03-3,
    Thioguanine
                   574-93-6, Phthalocyanine
                                            865-21-4, Vinblastine
    Chlorambucil
                               3562-63-8, Megestrol
                                                     3778-73-2, Ifosfamide
    3094-09-5, Doxifluridine
    4342-03-4, Dacarbazine 9060-10-0, Bleomycin B2 10540-29-1, Tamoxifen
    11116-31-7, Bleomycin A2 13010-47-4, Lomustine
                                                      13311-84-7, Flutamide
    15663-27-1, Cisplatin 20830-81-3, Daunorubicin 21679-14-1, Fludarabine
    22089-22-1, Trofosfamide
                             23214-92-8, Doxorubicin
                                                         24280-93-1,
    Mycophenolic acid 29767-20-2, Teniposide 31441-78-8, Mercaptopurine
    33069-62-4, Paclitaxel 33419-42-0, Etoposide
                                                     36791-04-5, Ribavirin
                            48134-75-4, 1-Methyl-4-phenylpyridinium
    41575-94-4, Carboplatin
    52128-35-5, Trimetrexate 53643-48-4, Vindesine
                                                       54083-22-6, Zorubicin
    56420-45-2, Epirubicin 58957-92-9, Idarubicin
                                                      60084-10-8, Tiazofurin
    62996-74-1, Staurosporine
                               65271-80-9, Mitoxantrone
                                                           67526-95-8,
    Thapsigargin 68247-85-8, Peplomycin 71486-22-1, Vinorelbine
    72496-41-4, Pirarubicin 74381-53-6, Leuprolide acetate
    Lovastatin 84449-90-1, Raloxifene
                                        90357-06-5, Bicalutamide
    91421-43-1, 9-Aminocamptothecin 96389-68-3, Crisnatol
                                                             118908-07-9,
            123948-87-8, Topotecan
                                    129497-78-5, BPD-MA
                                                          131875-08-6, KH
    EICAR
           167678-65-1, CB 1093
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (anticancer agent; prepn. of anilinopyrimidines as JNK pathway
       inhibitors)
TΨ
    50-33-9, Phenylbutazone, biological studies
                                                  50-78-2, Acetylsalicylic
                                                         57-96-5,
           53-86-1, Indomethacin 57-66-9, Probenecid
                     58-15-1, Aminopyrine 60-80-0, Antipyrine
    Sulfinpyrazone
                     64-86-8, Colchicine 69-72-7, Salicylic acid, biological
    Mefenamic acid
    studies 103-90-2, Acetaminophen 119-36-8, Methylsalicylate
    Oxyphenbutazone 315-30-0, Allopurinol 552-94-3, Salsalate
                                                                   599-79-1,
                    3562-84-3, Benzbromarone 6385-02-0, Meclofenamate sodium
    Sulfasalazine
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12244-57-4, Gold sodium thiomalate
    12192-57-3, Aurothioglucose
    13539-59-8, Apazone 15307-86-5, Dichlofenac 15687-27-1, Ibuprofen
                                                     22071-15-4, Ketoprofen
    15722-48-2, Olsalazine
                             21256-18-8, Oxaprozin
    22204-53-1, Naproxen
                                                    26159-34-2, Naproxen
                           22494-42-4, Diflunisal
             26171-23-3, Tolmetin 29679-58-1, Fenoprofen 34031-32-8,
    sodium
                                        38194-50-2, Sulindac
                                                                41340-25-4,
                36322-90-4, Piroxicam
    Auranofin
                                         51803-78-2, Nimesulide
                                                                 59804-37-4,
    Etodolac
               42924-53-8, Nabumetone
                                                                 90101-16-9,
                71125-38-7, Meloxicam
                                        74103-06-3, Ketorolac
    Tenoxicam
                                                                  162011-90-7,
               99464-64-9, Ampiroxicam 111406-87-2, Zileuton
    Droxicam
                                         170277-31-3, Infliximab
                169590-42-5, Celecoxib
    Rofecoxib
    185243-69-0, Enbrel
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (antiinflammatory agent; prepn. of anilinopyrimidines as JNK pathway
       inhibitors)
    289899-93-0, JNK2 kinase
TΤ
    RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (prepn. of anilinopyrimidines as JNK pathway inhibitors)
    434945-83-2P 434947-59-8P 434947-63-4P
ΙΤ
    RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
    preparation); THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); RACT (Reactant or reagent); USES (Uses)
        (prepn. of anilinopyrimidines as JNK pathway inhibitors)
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434947-32-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
   (prepn. of anilinopyrimidines as JNK pathway inhibitors)
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
   (prepn. of anilinopyrimidines as JNK pathway inhibitors)
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     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (prepn. of anilinopyrimidines as JNK pathway inhibitors)
                                        99-91-2, 1-(4-Chlorophenyl)ethan-1-one
IT
     98-09-9, Benzenesulfonyl chloride
               106-54-7, p-Chlorobenzenethiol
                                               109-01-3, N-Methylpiperazine
     100-19-6
                                     877-96-3
                                                1768-64-5,
     110-91-8, Morpholine, reactions
                               1788-10-9, 4-Acetylbenzenesulfonyl chloride
     4-Chlorotetrahydropyran
                                    2835-68-9, 4-Aminobenzamide
     2637-34-5, 2-Mercaptopyridine
                                                         14970-83-3,
                          5308-25-8, N-Ethylpiperazine
     4-Mercaptopyridine
                            16060-65-4, 4-Guanidinobenzoic acid
                                                                 16133-26-9,
     4-Hydroxybutanethiol
     3-Mercaptopyridine
                          18503-89-4, N,N-Dimethylformamide diisopropylacetal
     19721-22-3, 3-Mercaptopropanol 38430-55-6, Ethyl 4-acetylbenzoate
                                             40172-95-0
                                                           112677-03-9, Methyl
     40004-08-8, Ethyl 2-piperazinylacetate
                                           309271-25-8
     4-(guanidino)benzoate hydrochloride
                                                        434950-69-3
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                 434950-71-7
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        (prepn. of anilinopyrimidines as JNK pathway inhibitors)
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                                               99433-25-7P
                                                            122228-09-5P,
     4-Guanidinobenzoic acid methyl ester
                                            175203-08-4P, 4-(4-
                                       178055-98-6P
                                                      203246-71-3P
     Chlorophenyl)pyrimidine-2-thiol
     434941-55-6P, 4-(4-Chlorophenyl)-2-methylthiopyrimidine
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                                   434941-60-3P
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     434950-66-0P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. of anilinopyrimidines as JNK pathway inhibitors)
IT
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     RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
     preparation); THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); RACT (Reactant or reagent); USES (Uses)
        (prepn. of anilinopyrimidines as JNK pathway inhibitors)
     434945-83-2 HCAPLUS
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     1-Piperazinecarboxylic acid, 4-[4-[[4-(4-chlorophenyl)-2-
CN
     pyrimidinyl]amino]benzoyl]-, 1,1-dimethylethyl ester (9CI)
                                                                 (CA INDEX
     NAME)
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=> fil uspatall
FILE 'USPATFULL' ENTERED AT 12:11:16 ON 27 AUG 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 12:11:16 ON 27 AUG 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> d his 113-...

FILE 'USPATFULL, USPAT2' ENTERED AT 12:11:16 ON 27 AUG 2003

=> d bib abs hitstr tot 117

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L17
     ANSWER 1 OF 5 USPATFULL on STN
AN
       2003:214408 USPATFULL
       Inhibitors of c-Jun N terminal kinases (JNK) and other protein kinases
TI
       Green, Jeremy, Burlington, MA, UNITED STATES
TN
       Bemis, Guy, Arlington, MA, UNITED STATES
       Grillot, Anne-Laure, Cambridge, MA, UNITED STATES
       Ledeboer, Mark, Acton, MA, UNITED STATES
       Salituro, Francesco G., Marlboro, MA, UNITED STATES
       Harrington, Edmund, South Boston, MA, UNITED STATES
       Gao, Huai, Natick, MA, UNITED STATES
       Baker, Christopher, Bedford, MA, UNITED STATES
       Cao, Jingrong, Newton, MA, UNITED STATES
       Hale, Michael, Bedford, MA, UNITED STATES
                               20030807
PΙ
       US 2003149051
                          A1
       US 2002-74177
                          Α1
                               20020212 (10)
ΑI
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RT.T
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PRAT
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       US 1999-166922P
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       US 2000-211517P
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DT
       Utility
FS
       APPLICATION
       VERTEX PHARMACEUTICALS INCORPORATED, 130Waverly Street, Cambridge, MA,
LREP
       02130-4646
       Number of Claims: 24
CLMN
ECL
       Exemplary Claim: 1
       No Drawings
DRWN
LN.CNT 2022
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       The present invention provides compounds of formula I:
                                                                 ##STR1##
AB
```

where R.sup.1 is H, CONH.sub.2, T.sub.(n)--R, or T.sub.(n)--Ar.sup.2, n may be zero or one, and G, XYZ, and Q are as described below. These compounds are inhibitors of protein kinase, particularly inhibitors of JNK, a mammalian protein kinase involved cell proliferation, cell death and response to extracellular stimuli. The invention also relates to methods for producing these inhibitors. The invention also provides pharmaceutical compositions comprising the inhibitors of the invention and methods of utilizing those compositions in the treatment and prevention of various disorders.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 326818-24-0

(prepn. of as isoxazolylpyrimidines and related compds. as inhibitors of c-JUN N-terminal kinases and other protein kinases)

RN 326818-24-0 USPATFULL

CN Benzamide, 3-methyl-4-[[4-(5-methyl-3-phenyl-4-isoxazolyl)-2-pyrimidinyl]amino]- (9CI) (CA INDEX NAME)

ANSWER 2 OF 5 USPATFULL on STN L17 2003:109109 USPATFULL ΑN 2-pyrimidineamine derivatives and processes for their preparation ΤI Davis, Peter David, Aston Rowant, UNITED KINGDOM IN Moffat, David Festus Charles, Maidenhead, UNITED KINGDOM Batchelor, Mark James, Cumnor Hill, UNITED KINGDOM Hutchings, Martin Clive, Wokingham, UNITED KINGDOM Parry, David Mark, Twyford, UNITED KINGDOM Celltech R&D Limited, Slough, UNITED KINGDOM (non-U.S. corporation) PA US 6552029 20030422 В1 PΙ US 1999-420755 19991020 (9) ΑI Continuation of Ser. No. US 1997-958419, filed on 27 Oct 1997, now RLI patented, Pat. No. US 6114333 19961028 GB 1996-22363 PRAI Utility DTFS GRANTED Primary Examiner: Shah, Mukund J.; Assistant Examiner: McKenzie, Thomas EXNAM Woodcock Washburn LLP LREP Number of Claims: 13 CLMN Exemplary Claim: 1 ECL0 Drawing Figure(s); 0 Drawing Page(s) DRWN LN.CNT 2420 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

are described wherein:

Ar is an optionally substituted aromatic group;

Compounds of general formula (1) ##STR1##

R.sup.2 is a hydrogen or halogen atom or a group --X.sup.1--R.sup.2a where X.sup.1 is a direct bond or a linker atom or group, and R.sup.2a is an optionally substituted straight or branched chain alkyl, alkenyl or alkynyl group;

R.sup.3 is an optionally substituted heterocycloalkyl group;

and the salts, solvates, hydrates and N-oxides thereof.

The compounds are selective protein tyrosine kinase inhibitors, particularly the kinases ZAP-70 and syk and are of use in the prophylaxis and treatment of immune or allergic diseases and diseases involving inappropriate platelet activation.

```
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
```

IT 207283-10-1P

AB

(2-pyrimidineamines and their prepn.)

RN 207283-10-1 USPATFULL

CN Benzamide, 4-[[4-[6-(1-piperazinyl)-3-pyridinyl]-2-pyrimidinyl]amino]-

(9CI) (CA INDEX NAME)

$$\begin{array}{c} O \\ \parallel \\ H_2N-C \\ \hline \\ NH \\ \hline \\ N \\ \end{array}$$

ANSWER 3 OF 5 USPATFULL on STN

ΑN 2000:117714 USPATFULL

2-Pyrimidineamine derivatives and processes for their preparation TI

IN Davis, Peter David, Aston Rowant, United Kingdom

Moffat, David Festus Charles, Maidenhead, United Kingdom

Batchelor, Mark James, Cumnor Hill, United Kingdom Hutchings, Martin Clive, Wokingham, United Kingdom

Parry, David Mark, Twyford, United Kingdom

Celltech Therapeutics Ltd., United Kingdom (non-U.S. corporation) PΑ

20000905 PΙ US 6114333

US 1997-958419 19971027 (8) ΑI

<--GB 1996-22363 19961028 PRAI

DΤ Utility FS Granted

Primary Examiner: Shah, Mukund J.; Assistant Examiner: Kessinger, Ann EXNAM

LREP Woodcock Washburn Kurtz Mackiewicz & Norris LLP

CLMN Number of Claims: 6 Exemplary Claim: 1 ECL

No Drawings DRWN

LN.CNT 1938

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Compounds of general formula (1) ##STR1## are described wherein: Ar is AΒ an optionally substituted aromatic group;

R.sup.2 is a hydrogen or halogen atom or a group --X.sup.1 --R.sup.2a where X.sup.1 is a direct bond or a linker atom or group, and R.sup.2a is an optionally substituted straight or branched chain alkyl, alkenyl or alkynyl group;

R.sup.3 is an optionally substituted heterocycloalkyl group; and the salts, solvates, hydrates and N-oxides thereof.

The compounds are selective protein tyrosine kinase inhibitors, particularly the kinases ZAP-70 and syk and are of use in the prophylaxis and treatment of immune or allergic diseases and diseases involving inappropriate platelet activation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

207283-10-1P IΤ

(2-pyrimidineamines and their prepn.)

RN 207283-10-1 USPATFULL

Benzamide, 4-[[4-[6-(1-piperazinyl)-3-pyridinyl]-2-pyrimidinyl]amino]-CN (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O \\ H_2N-C \\ \hline \\ NH \\ \hline \\ N \\ \hline \\ N \\ \end{array}$$

ANSWER 4 OF 5 USPATFULL on STN ΑN 89:87539 USPATFULL ΤI 4,5,6-substituted-N-(substituted-phenyl)-2-pyrimidinamines Torley, Lawrence W., Washingtonville, NY, United States IN Johnson, Bernard D., Stony Point, NY, United States Dusza, John P., Nanuet, NY, United States American Cyanamid Company, Wayne, NJ, United States (U.S. corporation) PΑ PΙ US 4876252 19891024 US 1988-194751 19880517 (7) ΑI Division of Ser. No. US 1986-927572, filed on 6 Nov 1986, now patented, RLI Pat. No. US 4788195 which is a continuation-in-part of Ser. No. US 1986-817951, filed on 13 Jan 1986, now abandoned DT Utility FS Granted Primary Examiner: Hollrah, Glennon H.; Assistant Examiner: Turnipseed, EXNAM James H. Dow, Kenneth J., Conroy, Jr., Edward A. LREP CLMN Number of Claims: 1 ECL Exemplary Claim: 1 DRWN No Drawings LN.CNT 2394 CAS INDEXING IS AVAILABLE FOR THIS PATENT. This disclosure describes novel 4,5,6-substituted-N-(substituted-phenyl)-AB 2-pyrimidinamines having antiasthmatic activity. CAS INDEXING IS AVAILABLE FOR THIS PATENT. 112676-85-4P 112676-86-5P (prepn. of, as drug) RN 112676-85-4 USPATFULL

CN

RN 112676-86-5 USPATFULL CN Benzamide, N-methyl-4-[[4-(3-pyridinyl)-2-pyrimidinyl]amino]- (9CI) (CA INDEX NAME)

Benzamide, N-[2-(diethylamino)ethyl]-4-[[4-(3-pyridinyl)-2-

pyrimidinyl]amino] - (9CI) (CA INDEX NAME)

ANSWER 5 OF 5 USPATFULL on STN L17 88:77489 USPATFULL ΑN 4,5,6-substituted-N-(substituted-phenyl)-2-pyrimidinamines ΤI Torley, Lawrence W., Washingtonville, NY, United States IN Johnson, Bernard D., Rockland, NY, United States Dusza, John P., Rockland, NY, United States American Cyanamid Company, Stamford, CT, United States (U.S. PA corporation) 19881129 PΙ US 4788195 US 1986-927572 19861106 (6) ΑI Continuation-in-part of Ser. No. US 1986-817951, filed on 13 Jan 1986, RLI now abandoned DT Utility FS Granted Primary Examiner: Hollrah, Glennon H.; Assistant Examiner: Turnipseed, EXNAM James H. LREP Conroy, Edward A. CLMN Number of Claims: 16 Exemplary Claim: 1,16 ECL DRWN No Drawings LN.CNT 2426 CAS INDEXING IS AVAILABLE FOR THIS PATENT. This disclosure describes novel 4,5,6-substituted-N-(substituted-phenyl)-AΒ 2-pyrimidinamines having anti-asthmatic activity. CAS INDEXING IS AVAILABLE FOR THIS PATENT. 112676-85-4P 112676-86-5P (prepn. of, as drug) 112676-85-4 USPATFULL RN Benzamide, N-[2-(diethylamino)ethyl]-4-[[4-(3-pyridinyl)-2-

(CA INDEX NAME)

$$\begin{array}{c|c} N & NH \\ \hline \\ N & NH \\ \hline \\ C-NH-CH_2-CH_2-NEt_2 \\ \hline \\ O \end{array}$$

pyrimidinyl]amino]- (9CI)

CN

112676-86-5 USPATFULL RN Benzamide, N-methyl-4-[[4-(3-pyridinyl)-2-pyrimidinyl]amino]- (9CI) CN INDEX NAME)

=> d his

L1

L2

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L3 519 S L1 CSS FUL SAV L3 JKIM046/A

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L4 13 S L3 L5 2 S L4 AND (BHAGWAT ? OR YOSHITAKA ?)/AU

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L7 11 S L4 NOT L5, L6

L8 7 S L4 AND (PY<=2000 OR PRY<=2000 OR AY<=2000)

L9 7 S L5, L6, L8 L10 5 S L9 NOT L5, L6 SEL HIT RN

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L14 5 S L13 AND (PY<=2000 OR PRY<=2000)

L15 0 S L13 AND (BHAGWAT ? OR YOSHITAKA ?)/AU

L16 0 S L13 AND SIGNAL?/PA

L17 5 S L13, L14 AND A61K/IC, ICM, ICS

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